EAO – Your Expert Partner for
Human Machine Interfaces

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw



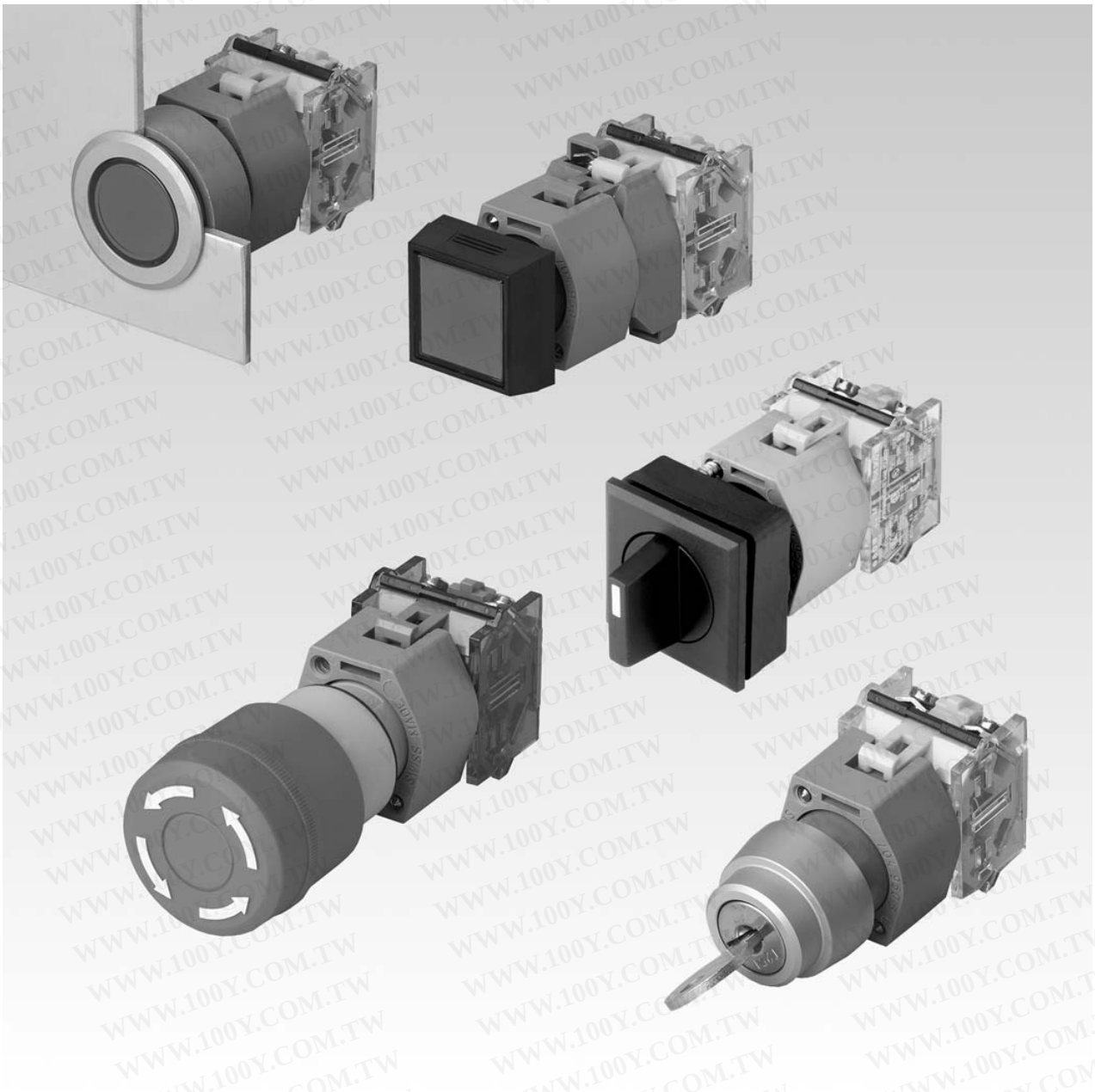
EAO Product Information

Series 04

eao

Downloaded from DatasheetLib.com - datasheet search engine

Downloaded from DatasheetLib.com - datasheet search engine



Downloaded from DatasheetLib.com - datasheet search engine

Contents

Description 3

Product Assembly 4

Mounting instruction 10

Devices raised mounting 12

Devices flush mounting 32

Accessories 48

Spare Parts 64

Technical Data 77

Typical Applications 84

Application guidelines 85

Marking 86

Drawings 91

Index 122

Downloaded from DatasheetLib.com - datasheet search engine

Product Information

General notes
Series 04, a modular switching system, offers users a wide range of possible combinations. A broad variety of actuators is available, round or square in shape, for use as pushbuttons, keylock switches or lever-operated switches and indicators.
Other special actuators, such as mushroom heads or emergency-stop pushbuttons and buzzers can also be supplied.
Max. 3 switching elements, as snap-action or slow-make switches, can be clipped as modules to each actuator. Each switching element is equipped with 1 or 2 independent switching systems with normally closed or normally open contact.
Anodized aluminium parts can have visible variations due production-technical reasons.

Mounting
The series 04 pushbuttons and switches in raised version are mounted in a 22.5 mm dia. cut-out or with appropriate adapter in 30.5 mm dia. mounting hole.
Flush mounted devices have a 30.5 mm dia. cutout or 30 x 30 mm.

Terminals
The switching elements and the lamp blocks can be supplied with srew- / plug-in terminals or push-in terminals.

Lenses
Lenses of transperent plasric or aluminium are available in various standard colours.

Marking
For further information about engraving, hot stamping and film inserts see part Marking.

Illumination
The BA9s incandescent (filament) lamp (6, 12, 24, 36, 48, 60, 110, 130 V) ensures perfect illumination of the lenses, which are supplied in various colours.
BA9s Single-Chip LED (6, 12, 24, 28, 48 V) are also available in blue, green, red, white or yellow.
Luminosity and wave length scattering caused by the technology used in the LED manufacturing processes may lead to visual differences in our products.

Position indication
The status of a maintained action switch can be determinded by the position of the lens.

Keylock switch
Standard lock number is 251, the last digit of Typ-Nr. = 0 (example : 704.335.**0**).
Additional lock numbers are available : 252 last digit = 1; 253 last digit = 2; 254 last digit = 3; 255 last digit = 4; 256 last digit = 5; 257 last digit = 6; 259 last digit = 8; 260 last digit = 9.
Two keys are supplied with each keylock switch.

Keyinsert switch 704.095.0T28
EAO worked with the German Railways to develop an incredibly strong key-insert switch, which allows the conductor to close all the train's doors at the same time from any door using so called 'remote closing'. The switch, which has a 'massive' all-stainless steel construction, was modified from EAO's standard Series 04 switch to actuate the remote closing function with a single twist of the conductor's key; he can cancel or 'revoke' the remote closing with another twist of the key.
The important difference in the EAO design and the design of the switch they used previously is that it separates the function according to direction; accidental operation far less likely - twist one way for remote closing, twist the other way to cancel the remote closing.
The switch has a mechanical liftime of 150 000 cycles and is incredibly durable to withstand the repeated use that might be necessary on every yourney.

Rotary selector switch
The rotary selector switch of series 04 are ideal control- and instrument switches. The switch types (CG4-1) are suitable particularly for switching of low tension. They correspond to the regulations after EN IEC 60947-3 and VDE 0660-Part 3.
By the special axial arrangement of the connecting terminals it is possible to mount the switches side by side or next to the cable duct. The contact marking remains well visible also in the mounted position. The required space of these switches is very small.

Number structure
Nomenclature in accordance with ' CENELEC Certificate '. The certification document we dispatch to them on demands.

Specimen order

Illuminated pushbutton:

-	Illuminiated pushbutton actuator, 30 x 30 mm Momentary action Front ring plastic black Lens plastic blue	704.229.6

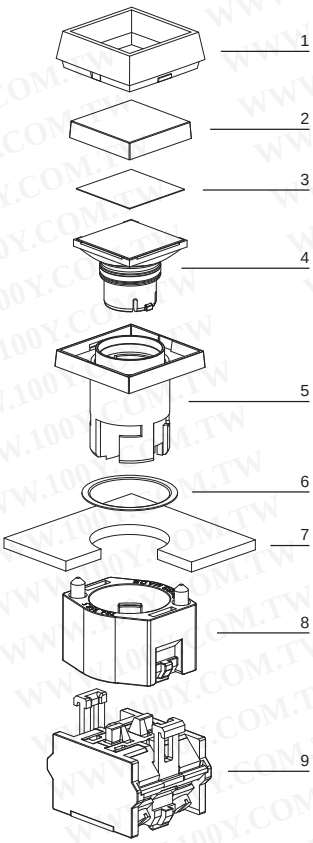
Essential accessories:

-	Single-Chip LED BA9s, 24 VAC/DC, blue	10-2512.1146
-	Switching element, snap-action 1 NC + 1 NO, hard silver srew terminal	704.900.5

We reserve the right to modify technical data
All dimensions in mm

Downloaded from DatasheetLib.com - datasheet search engine

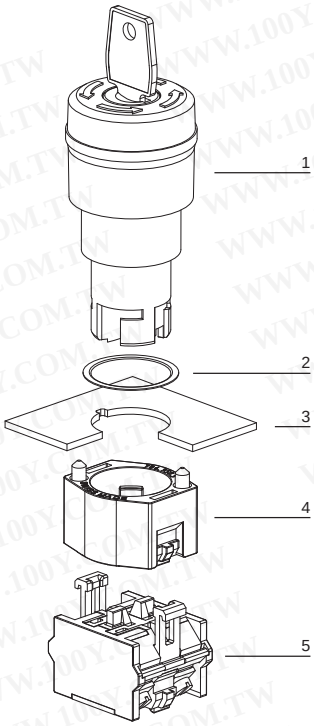
Pushbutton, raised mounting



1 Front bezel
2 Lens
3 Marking foil
4 Lens holder
5 Actuator housing
6 Sealing
7 Front plate
8 Bayonet flange
9 Switching element

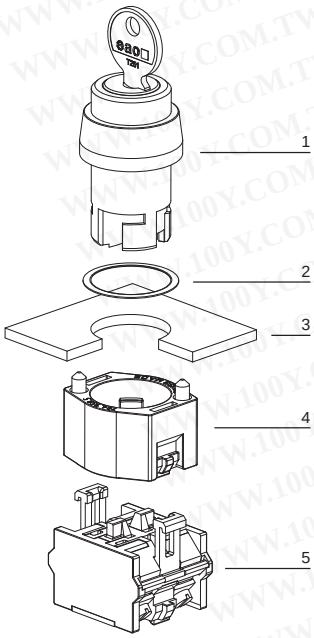
Downloaded from DatasheetLib.com - datasheet search engine

Emergency-stop pushbutton



1 Emergency-stop pushbutton actuator
2 Sealing
3 Front plate
4 Bayonet flange
5 Switching element

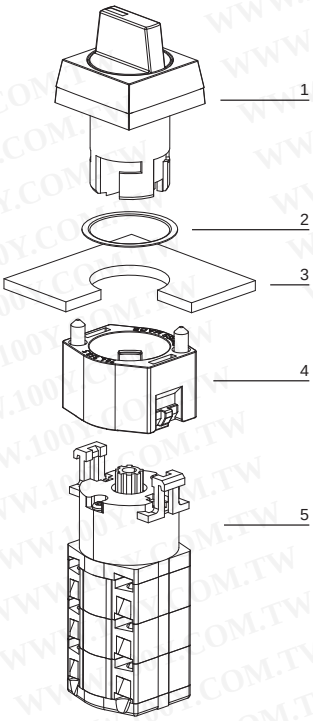
Keylock switch, raised mounting



1 Keylock switch actuator
2 Sealing
3 Front plate
4 Fixing nut
5 Switching element

Downloaded from DatasheetLib.com - datasheet search engine

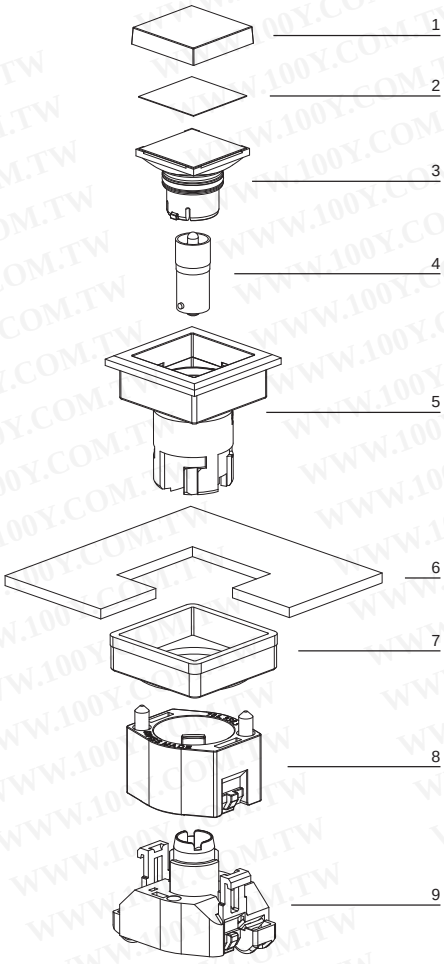
Rotary selector switch, raised mounting



1 Rotary selector switch actuator
2 Sealing
3 Front plate
4 Bayonet flange
5 Rotary switch element

Downloaded from DatasheetLib.com - datasheet search engine

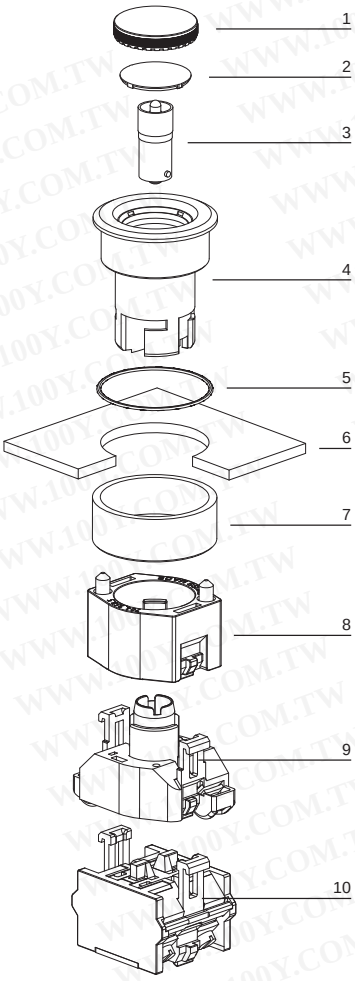
Indicator, flush mounting



1 Lens
2 Marking foil
3 Lens holder
4 LED
5 Actuator housing
6 Front plate
7 Pressure ring
8 Bayonet flange
9 Lamp element

Downloaded from DatasheetLib.com - datasheet search engine

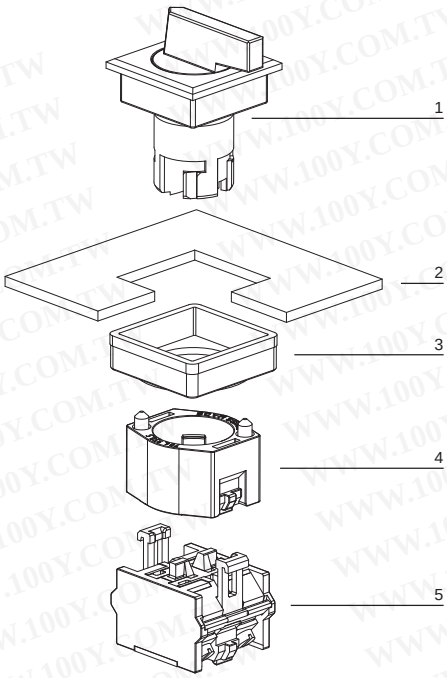
Pushbutton illuminated, flush mounting



1 Lens
2 Marking plate
3 LED
4 Actuator housing
5 Sealing
6 Front plate
7 Pressure ring
8 Bayonet flange
9 Lamp element
10 Switching element

Downloaded from DatasheetLib.com - datasheet search engine

Selector switch, flush mounting

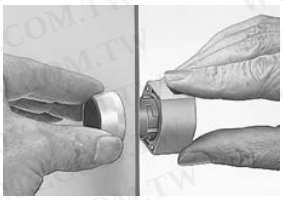


1 Selector switch actuator
2 Front plate
3 Pressure ring
4 Bayonet flange
5 Switching element

Downloaded from DatasheetLib.com - datasheet search engine

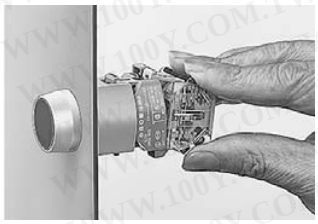
Pushbutton

The actuator is inserted from the front through the mounting hole and locked at the rear by twisting the boyonet flange. The switch is fixed and positioned by evenly tightening the two screws in the mounting flange to a max. torque of 25 ... 30 Ncm. A reducing ring can be used to fit 22.5 mm into a 30.5 mm hole.

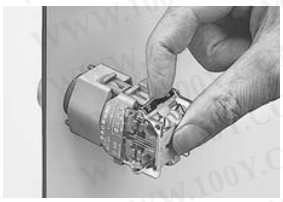


The switching elements (max. 3) or transformers, E-stop (max. 2), can easily be snapped in position without tools. LED's or filament lamps, as well as marking plates can be inserted or fitted from the front.

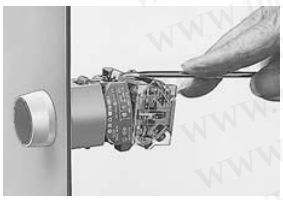




We can supply switching elements with terminal labels inserted.



To dismantle the switching elements or transformers one arm of the snap-on system is eased up with a screwdriver so that the snapped-on parts can easily removed.



Downloaded from DatasheetLib.com - datasheet search engine

Rotary selector switch

Actuator

Step 1
Mounting of the actuator element:

1. Insert actuator from the front into the mounting hole.

2. Push mounting flange onto the actuator from the back and latch with bayonet.

3. Screw flange on with the two threaded pins.

4. Put lever into reference position (nine o'clock).



Rotary switch element

Step 2
Snap rotary switch onto the actuator:

1. First check switch number with circuit diagram.

2. Put switching position of the cam at nine o'clock.

3. Snap rotary switch element onto the mounting flange, pay attention to position of the driver.

4. Check to see that the two snap-action legs have engaged.

5. Check the switching action in accordance with the switching sequence.



Downloaded from DatasheetLib.com - datasheet search engine

Indicator full-face illumination compact



Essential Accessories:
Single-LED page 58

	Front protection	Terminals	Lens cap	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Indicator full-face illumination compact Filament lamp 130 V, max. 2.6 W with integrated series resistor 230/130 V Marking cap white translucent	IP 65	ST	Plastic blue translucent	**704.022.6**	3	2	51	0.025
			Plastic colourless translucent	**704.022.7**	3	2	51	0.025
			Plastic green translucent	**704.022.5**	3	2	51	0.025
			Plastic red translucent	**704.022.2**	3	2	51	0.025
			Plastic yellow translucent	**704.022.4**	3	2	51	0.025
Filament lamp 60 V, max. 2.6 W with integrated series resistor 125/60 V Marking cap white translucent	IP 65	ST	Plastic blue translucent	**704.024.6**	3	2	51	0.025
			Plastic colourless translucent	**704.024.7**	3	2	51	0.025
			Plastic green translucent	**704.024.5**	3	2	51	0.025
			Plastic red translucent	**704.024.2**	3	2	51	0.025
			Plastic yellow translucent	**704.024.4**	3	2	51	0.025
Filament lamp max. 2.6 W or LED Marking cap white translucent	IP 65	ST	Plastic blue translucent	**704.020.6**	3	2	5	0.020
			Plastic colourless translucent	**704.020.7**	3	2	5	0.020
			Plastic green translucent	**704.020.5**	3	2	5	0.020
			Plastic red translucent	**704.020.2**	3	2	5	0.020
			Plastic yellow translucent	**704.020.4**	3	2	5	0.020
Marking plate colourless transparent ribbed	IP 65	ST	Plastic blue transparent	**704.021.6**	3	2	5	0.020
			Plastic colourless transparent	**704.021.7**	3	2	5	0.020
			Plastic green transparent	**704.021.5**	3	2	5	0.020
			Plastic red transparent	**704.021.2**	3	2	5	0.020
			Plastic yellow transparent	**704.021.4**	3	2	5	0.020

Terminals: ST = Screw terminal
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Indicator full face illumination





Essential Accessories:

Single-LED page 58

	Front protection	Terminals	Frontbezel/-ring	Lens cap	⧠ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Indicator full face illumination Filament lamp or LED Marking plate white translucent	IP 65	ST	Plastic black	Plastic blue	**704.199.6**		5	3	5	0.050
				Plastic colourless	**704.199.7**		5	3	5	0.050
				Plastic green	**704.199.5**		5	3	5	0.050
				Plastic red	**704.199.2**		5	3	5	0.050
				Plastic yellow	**704.199.4**		5	3	5	0.050
			Plastic grey	Plastic blue	**704.200.6**		5	3	5	0.050
				Plastic colourless	**704.200.7**		5	3	5	0.050
				Plastic green	**704.200.5**		5	3	5	0.050
				Plastic red	**704.200.2**		5	3	5	0.050
				Plastic yellow	**704.200.4**		5	3	5	0.050
			without	Plastic blue		**704.000.6**	5	3	5	0.050
				Plastic colourless		**704.000.7**	5	3	5	0.050
				Plastic green		**704.000.5**	5	3	5	0.050
				Plastic red		**704.000.2**	5	3	5	0.050
				Plastic yellow		**704.000.4**	5	3	5	0.050
Marking cap colourless transparent ripped	IP 65	ST	without	Plastic blue		**704.001.6**	5	3	5	0.050
				Plastic colourless		**704.001.7**	5	3	5	0.050
				Plastic green		**704.001.5**	5	3	5	0.050
				Plastic red		**704.001.2**	5	3	5	0.050
				Plastic yellow		**704.001.4**	5	3	5	0.050

Terminals: ST = Screw terminal

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Indicator front illumination





Essential Accessories:

Single-LED page 58

	Front protection	Terminals	Frontbezel/-ring	Lens	□ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Indicator front illumination Filament lamp or LED Marking plate white translucent	IP 65	ST	Plastic black	Plastic blue	**704.206.6**	**704.006.6**	5	5	5	0.050
				Plastic colourless	**704.206.7**	**704.006.7**	5	5	5	0.050
				Plastic green	**704.206.5**	**704.006.5**	5	5	5	0.050
				Plastic red	**704.206.2**	**704.006.2**	5	5	5	0.050
				Plastic yellow	**704.206.4**	**704.006.4**	5	5	5	0.050
			Plastic grey	Plastic blue	**704.202.6**	**704.002.6**	5	5	5	0.050
				Plastic colourless	**704.202.7**	**704.002.7**	5	5	5	0.050
				Plastic green	**704.202.5**	**704.002.5**	5	5	5	0.050
				Plastic red	**704.202.2**	**704.002.2**	5	5	5	0.050
				Plastic yellow	**704.202.4**	**704.002.4**	5	5	5	0.050
Marking plate colourless transparent ribbed	IP 65	ST	Plastic black	Plastic blue	**704.207.6**	**704.007.6**	5	5	5	0.050
				Plastic colourless	**704.207.7**	**704.007.7**	5	5	5	0.050
				Plastic green	**704.207.5**	**704.007.5**	5	5	5	0.050
				Plastic red	**704.207.2**	**704.007.2**	5	5	5	0.050
				Plastic yellow	**704.207.4**	**704.007.4**	5	5	5	0.050
			Plastic grey	Plastic blue	**704.203.6**	**704.003.6**	5	5	5	0.050
				Plastic colourless	**704.203.7**	**704.003.7**	5	5	5	0.050
				Plastic green	**704.203.5**	**704.003.5**	5	5	5	0.050
				Plastic red	**704.203.2**	**704.003.2**	5	5	5	0.050
				Plastic yellow	**704.203.4**	**704.003.4**	5	5	5	0.050

Terminals: ST = Screw terminal

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Flasher full face illumination





Essential Accessories:

Flasher element page 50
Single-LED page 58

	Front protection	Frontbezel/-ring	Lens cap	⧠ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Flasher full face illumination Filament lamp or LED Marking plate white translucent	IP 65	Plastic black	Plastic blue	**704.199.6**		5	6	5	0.050
			Plastic colourless	**704.199.7**		5	6	5	0.050
			Plastic green	**704.199.5**		5	6	5	0.050
			Plastic red	**704.199.2**		5	6	5	0.050
			Plastic yellow	**704.199.4**		5	6	5	0.050
		Plastic grey	Plastic blue	**704.200.6**		5	6	5	0.050
			Plastic colourless	**704.200.7**		5	6	5	0.050
			Plastic green	**704.200.5**		5	6	5	0.050
			Plastic red	**704.200.2**		5	6	5	0.050
			Plastic yellow	**704.200.4**		5	6	5	0.050
		without	Plastic blue		**704.000.6**	5	6	5	0.050
			Plastic colourless		**704.000.7**	5	6	5	0.050
			Plastic green		**704.000.5**	5	6	5	0.050
			Plastic red		**704.000.2**	5	6	5	0.050
			Plastic yellow		**704.000.4**	5	6	5	0.050
Marking cap colourless transparent ripped	IP 65	without	Plastic blue		**704.001.6**	5	6	5	0.050
			Plastic colourless		**704.001.7**	5	6	5	0.050
			Plastic green		**704.001.5**	5	6	5	0.050
			Plastic red		**704.001.2**	5	6	5	0.050
			Plastic yellow		**704.001.4**	5	6	5	0.050

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Flasher front illumination





Essential Accessories:

Flasher element page 50
Single-LED page 58

	Front protection	Frontbezel/-ring	Lens	□ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Flasher front illumination Filament lamp or LED Marking plate white translucent	IP 65	Plastic black	Plastic blue	**704.206.6**	**704.006.6**	5	7	5	0.050
			Plastic colourless	**704.206.7**	**704.006.7**	5	7	5	0.050
			Plastic green	**704.206.5**	**704.006.5**	5	7	5	0.050
			Plastic red	**704.206.2**	**704.006.2**	5	7	5	0.050
			Plastic yellow	**704.206.4**	**704.006.4**	5	7	5	0.050
		Plastic grey	Plastic blue	**704.202.6**	**704.002.6**	5	7	5	0.050
			Plastic colourless	**704.202.7**	**704.002.7**	5	7	5	0.050
			Plastic green	**704.202.5**	**704.002.5**	5	7	5	0.050
			Plastic red	**704.202.2**	**704.002.2**	5	7	5	0.050
			Plastic yellow	**704.202.4**	**704.002.4**	5	7	5	0.050
Marking plate colourless transparent ribbed	IP 65	Plastic black	Plastic blue	**704.207.6**	**704.007.6**	5	7	5	0.050
			Plastic colourless	**704.207.7**	**704.007.7**	5	7	5	0.050
			Plastic green	**704.207.5**	**704.007.5**	5	7	5	0.050
			Plastic red	**704.207.2**	**704.007.2**	5	7	5	0.050
			Plastic yellow	**704.207.4**	**704.007.4**	5	7	5	0.050
		Plastic grey	Plastic blue	**704.203.6**	**704.003.6**	5	7	5	0.050
			Plastic colourless	**704.203.7**	**704.003.7**	5	7	5	0.050
			Plastic green	**704.203.5**	**704.003.5**	5	7	5	0.050
			Plastic red	**704.203.2**	**704.003.2**	5	7	5	0.050
			Plastic yellow	**704.203.4**	**704.003.4**	5	7	5	0.050

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Buzzer



	Front protection	Front cap	Terminals	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Buzzer Operation voltage 24 VDC	IP 65	Brass nickel-plated	S1	**14-810.902**	5	18	1	0.016
		Plastic black	S1	**14-810.002**	5	18	1	0.016

Further information in the Technical Data and Typical Applications
Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Pushbutton actuator





Essential Accessories:

Switching element page 51

	Front protection	Switching action	Frontbezel/-ring	Lens	⧠ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Pushbutton actuator	IP 65	MA	Plastic black	Plastic black	**704.239.0**	**704.039.0**	5	4	3	0.040
				Plastic blue	**704.239.6**	**704.039.6**	5	4	3	0.040
				Plastic colourless	**704.239.7**	**704.039.7**	5	4	3	0.040
				Plastic green	**704.239.5**	**704.039.5**	5	4	3	0.040
				Plastic red	**704.239.2**	**704.039.2**	5	4	3	0.040
				Plastic yellow	**704.239.4**	**704.039.4**	5	4	3	0.040
			Plastic grey	Plastic black	**704.240.0**	**704.040.0**	5	4	3	0.040
				Plastic blue	**704.240.6**	**704.040.6**	5	4	3	0.040
				Plastic colourless	**704.240.7**	**704.040.7**	5	4	3	0.040
				Plastic green	**704.240.5**	**704.040.5**	5	4	3	0.040
				Plastic red	**704.240.2**	**704.040.2**	5	4	3	0.040
				Plastic yellow	**704.240.4**	**704.040.4**	5	4	3	0.040
		M	Plastic black	Plastic black	**704.209.0**	**704.009.0**	5	4	4	0.040
				Plastic blue	**704.209.6**	**704.009.6**	5	4	4	0.040
				Plastic colourless	**704.209.7**	**704.009.7**	5	4	4	0.040
				Plastic green	**704.209.5**	**704.009.5**	5	4	4	0.040
				Plastic red	**704.209.2**	**704.009.2**	5	4	4	0.040
				Plastic yellow	**704.209.4**	**704.009.4**	5	4	4	0.040
			Plastic grey	Plastic black	**704.210.0**	**704.010.0**	5	4	4	0.040
				Plastic blue	**704.210.6**	**704.010.6**	5	4	4	0.040
				Plastic colourless	**704.210.7**	**704.010.7**	5	4	4	0.040
				Plastic green	**704.210.5**	**704.010.5**	5	4	4	0.040
				Plastic red	**704.210.2**	**704.010.2**	5	4	4	0.040
				Plastic yellow	**704.210.4**	**704.010.4**	5	4	4	0.040
		MA	Aluminium natural	Aluminium black		**704.041.0**	5	4	3	0.040
				Aluminium blue		**704.041.6**	5	4	3	0.040
				Aluminium gold		**704.041.4**	5	4	3	0.040
				Aluminium natural		**704.041.8**	5	4	3	0.040
				Aluminium olive-green		**704.041.5**	5	4	3	0.040
				Aluminium red		**704.041.2**	5	4	3	0.040
				Plastic black		**704.042.0**	5	4	3	0.040
				Plastic blue		**704.042.6**	5	4	3	0.040
				Plastic colourless		**704.042.7**	5	4	3	0.040
				Plastic green		**704.042.5**	5	4	3	0.040
				Plastic red		**704.042.2**	5	4	3	0.040
				Plastic yellow		**704.042.4**	5	4	3	0.040

Continuation see next page

Downloaded from DatasheetLib.com - datasheet search engine

Continued from previous page

	Front protection	Switching action	Frontbezel/-ring	Lens	⏍ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Pushbutton actuator	IP 65	M	Aluminium natural	Aluminium black		**704.011.0**	5	4	4	0.040
				Aluminium blue		**704.011.6**	5	4	4	0.040
				Aluminium gold		**704.011.4**	5	4	4	0.040
				Aluminium natural		**704.011.8**	5	4	4	0.040
				Aluminium olive-green		**704.011.5**	5	4	4	0.040
				Aluminium red		**704.011.2**	5	4	4	0.040
				Plastic black		**704.012.0**	5	4	4	0.040
				Plastic blue		**704.012.6**	5	4	4	0.040
				Plastic colourless		**704.012.7**	5	4	4	0.040
				Plastic green		**704.012.5**	5	4	4	0.040
				Plastic red		**704.012.2**	5	4	4	0.040
				Plastic yellow		**704.012.4**	5	4	4	0.040
	IP 67	MA	Aluminium natural with protective cap	Plastic black		**704.043.0**	5	4	3	0.040
				Plastic blue		**704.043.6**	5	4	3	0.040
				Plastic colourless		**704.043.7**	5	4	3	0.040
				Plastic green		**704.043.5**	5	4	3	0.040
				Plastic red		**704.043.2**	5	4	3	0.040
				Plastic yellow		**704.043.4**	5	4	3	0.040
		M	Aluminium natural with protective cap	Plastic black		**704.013.0**	5	4	4	0.040
				Plastic blue		**704.013.6**	5	4	4	0.040
				Plastic colourless		**704.013.7**	5	4	4	0.040
				Plastic green		**704.013.5**	5	4	4	0.040
				Plastic red		**704.013.2**	5	4	4	0.040
				Plastic yellow		**704.013.4**	5	4	4	0.040

Frontring with protective cover to be mounted with a torque of 40 Ncm onto actuator.
Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Illuminated pushbutton actuator





Essential Accessories:

- Single-LED page 58
- Switching element page 51

	Front protection	Switching action	Frontbezel/-ring	Lens	⧄ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Illuminated pushbutton actuator	IP 65	MA	Plastic black	Plastic blue	**704.259.6**	**704.059.6**	5	8	34	0.056
				Plastic colourless	**704.259.7**	**704.059.7**	5	8	34	0.056
				Plastic green	**704.259.5**	**704.059.5**	5	8	34	0.056
				Plastic red	**704.259.2**	**704.059.2**	5	8	34	0.056
				Plastic yellow	**704.259.4**	**704.059.4**	5	8	34	0.056
			Plastic grey	Plastic blue	**704.260.6**	**704.060.6**	5	8	34	0.056
				Plastic colourless	**704.260.7**	**704.060.7**	5	8	34	0.056
				Plastic green	**704.260.5**	**704.060.5**	5	8	34	0.056
				Plastic red	**704.260.2**	**704.060.2**	5	8	34	0.056
				Plastic yellow	**704.260.4**	**704.060.4**	5	8	34	0.056
		M	Plastic black	Plastic blue	**704.229.6**	**704.029.6**	5	8	41	0.056
				Plastic colourless	**704.229.7**	**704.029.7**	5	8	41	0.056
				Plastic green	**704.229.5**	**704.029.5**	5	8	41	0.056
				Plastic red	**704.229.2**	**704.029.2**	5	8	41	0.056
				Plastic yellow	**704.229.4**	**704.029.4**	5	8	41	0.056
			Plastic grey	Plastic blue	**704.230.6**	**704.030.6**	5	8	41	0.056
				Plastic colourless	**704.230.7**	**704.030.7**	5	8	41	0.056
				Plastic green	**704.230.5**	**704.030.5**	5	8	41	0.056
				Plastic red	**704.230.2**	**704.030.2**	5	8	41	0.056
				Plastic yellow	**704.230.4**	**704.030.4**	5	8	41	0.056
		MA	Aluminium natural	Plastic blue		**704.062.6**	5	8	34	0.056
				Plastic colourless		**704.062.7**	5	8	34	0.056
				Plastic green		**704.062.5**	5	8	34	0.056
				Plastic red		**704.062.2**	5	8	34	0.056
				Plastic yellow		**704.062.4**	5	8	34	0.056
		M	Aluminium natural	Plastic blue		**704.032.6**	5	8	41	0.056
				Plastic colourless		**704.032.7**	5	8	41	0.056
				Plastic green		**704.032.5**	5	8	41	0.056
				Plastic red		**704.032.2**	5	8	41	0.056
				Plastic yellow		**704.032.4**	5	8	41	0.056
			Aluminium natural with protective cap	Plastic blue		**704.033.6**	5	8	41	0.056
				Plastic colourless		**704.033.7**	5	8	41	0.056
				Plastic green		**704.033.5**	5	8	41	0.056
				Plastic red		**704.033.2**	5	8	41	0.056
				Plastic yellow		**704.033.4**	5	8	41	0.056
	IP 67	MA	Aluminium natural with protective cap	Plastic blue		**704.063.6**	5	8	34	0.056
				Plastic colourless		**704.063.7**	5	8	34	0.056
				Plastic green		**704.063.5**	5	8	34	0.056
				Plastic red		**704.063.2**	5	8	34	0.056
				Plastic yellow		**704.063.4**	5	8	34	0.056

Continuation see next page

Downloaded from DatasheetLib.com - datasheet search engine

Continued from previous page
Frontring with protective cover to be mounted with a torque of 40 Ncm onto actuator.
Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Emergency-stop pushbutton actuator, foolproof EN IEC 60947-5-5

Application as per DIN EN ISO 13850 and EN 60204-1




Essential Accessories:

Switching element for Emergency-stop pushbutton page 54

	Front protection	Switching action	Mushroom had cap	Marking	Ø 37 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Emergency-stop pushbutton actuator, foolproof EN IEC 60947-5-5 Yellow actuator Key to unlock anti-clockwise Standard lock 9500 Max. 2 Slow-make elements can be clipped on	IP 65	MA	Plastic red	Arrows	**704.066.2**	2	24	6	0.300
Yellow actuator Twist to unlock anti-clockwise Max. 2 Slow-make elements can be clipped on	IP 65	MA	Plastic red	Arrows	**704.064.2**	2	14	6	0.300

Switching action: MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Stop pushbutton actuator





Essential Accessories:

Switching element for Emergency-stop pushbutton page 54

	Front protection	Switching action	Front ring	Mushroom had cap	Marking	Ø 40 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Stop pushbutton actuator Key to unlock clockwise Standard lock 251	IP 65	MA	Aluminium natural	Plastic red	without	**704.078.0**	9	17	6	0.063
			Plastic grey	Plastic red	without	**704.076.0**	9	17	6	0.063
Twist to unlock clockwise	IP 65	MA	Aluminium natural	Plastic red	Arrows	**704.075.2**	9	12	6	0.047
					Stop	**704.075.3**	9	12	6	0.047
			Plastic grey	Plastic red	Arrows	**704.074.2**	9	12	6	0.047
					Stop	**704.074.3**	9	12	6	0.047

Switching action: MA = Maintained action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Mushroom-head pushbutton actuator



Essential Accessories:

Switching element page 51

	Front protection	Switching action	Front ring	Mushroom had cap	Ø 40 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	[kg]
Mushroom-head pushbutton actuator	IP 65	MA	Aluminium natural	Plastic black	**704.073.0**	9	15	3	0.044
				Plastic green	**704.073.5**	9	15	3	0.044
				Plastic red	**704.073.2**	9	15	3	0.044
				Plastic yellow	**704.073.4**	9	15	3	0.044
			Plastic grey	Plastic black	**704.072.0**	9	15	3	0.044
				Plastic green	**704.072.5**	9	15	3	0.044
				Plastic red	**704.072.2**	9	15	3	0.044
				Plastic yellow	**704.072.4**	9	15	3	0.044
		M	Aluminium natural	Plastic black	**704.071.0**	9	15	4	0.044
				Plastic green	**704.071.5**	9	15	4	0.044
				Plastic red	**704.071.2**	9	15	4	0.044
				Plastic yellow	**704.071.4**	9	15	4	0.044
			Plastic grey	Plastic black	**704.070.0**	9	15	4	0.044
				Plastic green	**704.070.5**	9	15	4	0.044
				Plastic red	**704.070.2**	9	15	4	0.044
				Plastic yellow	**704.070.4**	9	15	4	0.044

Switching action: MA = Maintained action, M = Momentary action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Mushroom-head pushbutton actuator illuminated



Essential Accessories:

- Single-LED page 58
- Switching element page 51

	Front protection	Switching action	Front ring	Mushroom had cap	Ø 40 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Mushroom-head pushbutton actuator illuminated	IP 65	MA	Plastic grey	Plastic blue	**704.086.6**	9	13	34	0.044
				Plastic colourless	**704.086.7**	9	13	34	0.044
				Plastic green	**704.086.5**	9	13	34	0.044
				Plastic red	**704.086.2**	9	13	34	0.044
				Plastic yellow	**704.086.4**	9	13	34	0.044
		M	Plastic grey	Plastic blue	**704.084.6**	9	13	41	0.044
				Plastic colourless	**704.084.7**	9	13	41	0.044
				Plastic green	**704.084.5**	9	13	41	0.044
				Plastic red	**704.084.2**	9	13	41	0.044
				Plastic yellow	**704.084.4**	9	13	41	0.044

Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Keylock switch actuator 2 positions





Essential Accessories:

Switching element page 51

Maintain 90 ° C B / Momentary 42 ° A B	Front protection	Switching action	Frontbezel/-ring	Key remove	□ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Keylock switch actuator 2 positions Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	M	Plastic grey	A	**704.343.0**		5	9	44	0.070
Position C + B : Maintained action 90° Standard lock 251	IP 65	MA	Plastic grey	B	**704.340.0**		5	9	45	0.070
				C	**704.341.0**		5	9	45	0.070
				C + B	**704.342.0**		5	9	45	0.070
Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	M	Aluminium chromium-plated	A		**704.123.0**	5	9	44	0.070
Position C + B : Maintained action 90° Standard lock 251	IP 65	MA	Aluminium chromium-plated	B		**704.120.0**	5	9	45	0.070
				C		**704.121.0**	5	9	45	0.070
				C + B		**704.122.0**	5	9	45	0.070

Switching action: M = Momentary action, MA = Maintained action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

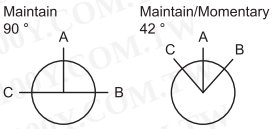
Keylock switch actuator 3 positions





Essential Accessories:

Switching element page 51



Front protection	Frontbezel/-ring	Switching action	Key remove	□ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Keylock switch actuator 3 positions Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	Plastic grey	MA-0-M	C	**704.337.0**		5	9	46	0.070
				C + A	**704.344.0**		5	9	46	0.070
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42° Standard lock 251	IP 65	Plastic grey	M-0-MA	A	**704.338.0**		5	9	43	0.070
Position C + B : Maintained action 42° Position A : Basic position Standard lock 251	IP 65	Plastic grey	MA-0-MA	A	**704.334.0**		5	9	47	0.070
				C + B	**704.336.0**		5	9	47	0.070
Position C + B : Maintained action 90° Position A : Basic position Standard lock 251	IP 65	Plastic grey	MA-0-MA	C + A + B	**704.333.0**		5	9	47	0.070
Position C + B : Momentary action 42° Position A : Basic position Standard lock 251	IP 65	Plastic grey	M-0-M	A	**704.335.0**		5	9	42	0.070
Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	Aluminium chromium-plated	MA-0-M	C		**704.117.0**	5	9	46	0.070
				C + A		**704.124.0**	5	9	46	0.070
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42° Standard lock 251	IP 65	Aluminium chromium-plated	M-0-MA	A		**704.118.0**	5	9	43	0.070
Position C + B : Maintained action 42° Position A : Basic position Standard lock 251	IP 65	Aluminium chromium-plated	MA-0-MA	A		**704.114.0**	5	9	47	0.070
				C + B		**704.116.0**	5	9	47	0.070
Position C + B : Maintained action 90° Position A : Basic position Standard lock 251	IP 65	Aluminium chromium-plated	MA-0-MA	C + A + B		**704.113.0**	5	9	47	0.070
Position C + B : Momentary action 42° Position A : Basic position Standard lock 251	IP 65	Aluminium chromium-plated	M-0-M	A		**704.115.0**	5	9	42	0.070

Switching action: MA = Maintained action, M = Momentary action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

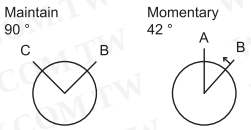
Downloaded from DatasheetLib.com - datasheet search engine

Selector switch actuator 2 positions, short lever




Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	⊡ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, short lever Position A : Basic position Position B : Momentary action 42°	IP 65	M	Plastic grey	Plastic black	**704.512.0**	**704.412.0**	5	11	37	0.034
Position C + B : Maintained action 90°	IP 65	MA	Plastic grey	Plastic black	**704.510.0**	**704.410.0**	5	11	38	0.034
Position A : Basic position Position B : Momentary action 42°	IP 65	M	Aluminium natural	Plastic black		**704.413.0**	5	11	37	0.037
Position C + B : Maintained action 90°	IP 65	MA	Aluminium natural	Plastic black		**704.411.0**	5	11	38	0.037

Switching action: M = Momentary action, MA = Maintained action

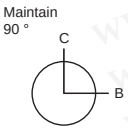
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Selector switch actuator 2 positions, short lever, 12 o'clock




Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	⊡ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, short lever, 12 o'clock Position C + B : Maintained action 90°	IP 65	MA	Plastic grey	Plastic black	**704.510.0.12**	**704.410.0.12**	5	11	38	0.034
			Aluminium black	Plastic black		**704.411.0B.12**	5	11	38	0.037
			Aluminium natural	Plastic black		**704.411.0.12**	5	11	38	0.037

Switching action: MA = Maintained action

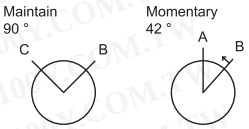
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Selector switch actuator 2 positions, long lever




Essential Accessories:
Switching element page 51



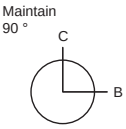
	Front protection	Switching action	Frontbezel/-ring	Lever	⍁ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, long lever Position A : Basic position Position B : Momentary action 42°	IP 65	M	Plastic grey	Plastic black	**704.302.0**	**704.102.0**	6	10	37	0.034
Position C + B : Maintained action 90°	IP 65	MA	Plastic grey	Plastic black	**704.300.0**	**704.100.0**	6	10	38	0.034
Position A : Basic position Position B : Momentary action 42°	IP 65	M	Aluminium natural	Plastic black		**704.103.0**	6	10	37	0.037
Position C + B : Maintained action 90°	IP 65	MA	Aluminium natural	Plastic black		**704.101.0**	6	10	38	0.037

Switching action: M = Momentary action, MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Selector switch actuator 2 positions, long lever, 12 o'clock




Essential Accessories:
Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	⍁ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, long lever, 12 o'clock Position C + B : Maintained action 90°	IP 65	MA	Plastic grey	Plastic black	**704.300.0.12**	**704.100.0.12**	6	10	38	0.034
			Aluminium black	Plastic black		**704.101.0D.12**	6	10	38	0.037
			Aluminium natural	Plastic black		**704.101.0.12**	6	10	38	0.037

Switching action: MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Selector switch actuator 3 positions, short lever





Essential Accessories:

Switching element page 51

Maintain/Momentary 42 ° C A B	Front protection	Switching action	Frontbezel/-ring	Lever	□ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 3 positions, short lever Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Plastic grey	Plastic black	**704.506.0**	**704.406.0**	5	11	39	0.034
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Plastic grey	Plastic black	**704.508.0**	**704.408.0**	5	11	36	0.034
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Plastic grey	Plastic black	**704.502.0**	**704.402.0**	5	11	40	0.034
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Plastic grey	Plastic black	**704.504.0**	**704.404.0**	5	11	35	0.034
Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Aluminium natural	Plastic black		**704.407.0**	5	11	39	0.037
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Aluminium natural	Plastic black		**704.409.0**	5	11	36	0.037
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Aluminium natural	Plastic black		**704.403.0**	5	11	40	0.037
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Aluminium natural	Plastic black		**704.405.0**	5	11	35	0.037

Switching action: MA = Maintained action, M = Momentary action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Selector switch actuator 3 positions, long lever





Essential Accessories:

Switching element page 51

Maintain/Momentary 42 ° C A B	Front protection	Switching action	Frontbezel/-ring	Lever	□ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 3 positions, long lever Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Plastic grey	Plastic black	**704.296.0**	**704.096.0**	6	10	39	0.034
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Plastic grey	Plastic black	**704.298.0**	**704.098.0**	6	10	36	0.034
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Plastic grey	Plastic black	**704.292.0**	**704.092.0**	6	10	40	0.034
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Plastic grey	Plastic black	**704.294.0**	**704.094.0**	6	10	35	0.034
Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Aluminium natural	Plastic black		**704.097.0**	6	10	39	0.037
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Aluminium natural	Plastic black		**704.099.0**	6	10	36	0.037
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Aluminium natural	Plastic black		**704.093.0**	6	10	40	0.037
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Aluminium natural	Plastic black		**704.095.0**	6	10	35	0.037

Switching action: MA = Maintained action, M = Momentary action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Rotary selector switch actuator, short lever




Essential Accessories:

- Rotary selector switching element 30° page 55
- Rotary selector switching element 45° page 55
- Rotary selector switching element 60° page 56

	Front protection	Frontbezel/-ring	Lever	⍁ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Rotary selector switch actuator, short lever Position 0 : nine o'clock	IP 65	Plastic grey	Plastic black	**704.510.1KN**		4	69	0.045
		Aluminium natural	Plastic black		**704.411.1KN**	4	69	0.045

Mounting dimensions from page 91, Technical drawing from page 95

Rotary selector switch actuator, long lever




Essential Accessories:

- Rotary selector switching element 30° page 55
- Rotary selector switching element 45° page 55
- Rotary selector switching element 60° page 56

	Front protection	Frontbezel/-ring	Lever	⍁ 30 x 30 mm Typ-Nr.	Ø 29 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Rotary selector switch actuator, long lever Position 0 : nine o'clock	IP 65	Plastic grey	Plastic black	**704.300.1KN**		4	70	0.045
		Aluminium natural	Plastic black		**704.101.1KN**	4	70	0.045
Position 0 : twelve o'clock	IP 65	Aluminium natural	Plastic black		**704.101.0KN**	4	70	0.045

Mounting dimensions from page 91, Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Indicator, flush mounting





Essential Accessories:
Single-LED page 58

	Front protection	Terminals	Frontbezel/-ring	Lens	▯ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Indicator, flush mounting	IP 65	ST	Plastic black	Plastic blue	**704.206.600**		12	20	5	0.061
				Plastic colourless	**704.206.700**		12	20	5	0.061
				Plastic green	**704.206.500**		12	20	5	0.061
				Plastic red	**704.206.200**		12	20	5	0.061
				Plastic yellow	**704.206.400**		12	20	5	0.061
			Plastic silver	Plastic blue	**704.202.608**		12	20	5	0.061
				Plastic colourless	**704.202.708**		12	20	5	0.061
				Plastic green	**704.202.508**		12	20	5	0.061
				Plastic red	**704.202.208**		12	20	5	0.061
				Plastic yellow	**704.202.408**		12	20	5	0.061
			Aluminium natural	Plastic blue		**704.006.618**	7	20	5	0.061
				Plastic colourless		**704.006.718**	7	20	5	0.061
				Plastic green		**704.006.518**	7	20	5	0.061
				Plastic red		**704.006.218**	7	20	5	0.061
				Plastic yellow		**704.006.418**	7	20	5	0.061

Terminals: ST = Screw terminal
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Flasher, flush mounting





Essential Accessories:

Flasher element page 50
Single-LED page 58

	Front protection	Frontbezel/-ring	Lens	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Flasher, flush mounting	IP 65	Plastic black	Plastic blue	**704.206.600**		12	21	5	0.061
			Plastic colourless	**704.206.700**		12	21	5	0.061
			Plastic green	**704.206.500**		12	21	5	0.061
			Plastic red	**704.206.200**		12	21	5	0.061
			Plastic yellow	**704.206.400**		12	21	5	0.061
		Plastic silver	Plastic blue	**704.202.608**		12	21	5	0.061
			Plastic colourless	**704.202.708**		12	21	5	0.061
			Plastic green	**704.202.508**		12	21	5	0.061
			Plastic red	**704.202.208**		12	21	5	0.061
			Plastic yellow	**704.202.408**		12	21	5	0.061
		Aluminium natural	Plastic blue		**704.006.618**	7	21	5	0.061
			Plastic colourless		**704.006.718**	7	21	5	0.061
			Plastic green		**704.006.518**	7	21	5	0.061
			Plastic red		**704.006.218**	7	21	5	0.061
			Plastic yellow		**704.006.418**	7	21	5	0.061

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Buzzer, flush mounting



	Front protection	Front cap	Terminals	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Buzzer, flush mounting Operation voltage : 24 VDC	IP 40	Aluminium black	S1	**14-810.910**	7	68	1	0.016
		Aluminium natural	S1	**14-810.918**	7	68	1	0.016

Further information in the Technical Data and Typical Applications
Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Pushbutton actuator, flush mounting

non-illuminative





Essential Accessories:

Switching element page 51

	Front protection	Switching action	Frontbezel/-ring	Lens	⍁ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Pushbutton actuator, flush mounting	IP 65	MA	Plastic black	Plastic black	**704.239.000**		12	22	3	0.051
				Plastic blue	**704.239.600**		12	22	3	0.051
				Plastic colourless	**704.239.700**		12	22	3	0.051
				Plastic green	**704.239.500**		12	22	3	0.051
				Plastic red	**704.239.200**		12	22	3	0.051
				Plastic yellow	**704.239.400**		12	22	3	0.051
			Plastic silver	Plastic black	**704.240.008**		12	22	4	0.051
				Plastic blue	**704.240.608**		12	22	3	0.051
				Plastic colourless	**704.240.708**		12	22	3	0.051
				Plastic green	**704.240.508**		12	22	3	0.051
				Plastic red	**704.240.208**		12	22	3	0.051
				Plastic yellow	**704.240.408**		12	22	3	0.051
		M	Plastic black	Plastic black	**704.209.000**		12	22	4	0.051
				Plastic blue	**704.209.600**		12	22	4	0.051
				Plastic colourless	**704.209.700**		12	22	4	0.051
				Plastic green	**704.209.500**		12	22	4	0.051
				Plastic red	**704.209.200**		12	22	4	0.051
				Plastic yellow	**704.209.400**		12	22	4	0.051
			Plastic silver	Plastic black	**704.210.008**		12	22	4	0.051
				Plastic blue	**704.210.608**		12	22	4	0.051
				Plastic colourless	**704.210.708**		12	22	4	0.051
				Plastic green	**704.210.508**		12	22	4	0.051
				Plastic red	**704.210.208**		12	22	4	0.051
				Plastic yellow	**704.210.408**		12	22	4	0.051
		MA	Aluminium natural	Aluminium black		**704.041.018**	7	22	3	0.051
				Aluminium blue		**704.041.618**	7	22	3	0.051
				Aluminium gold		**704.041.418**	7	22	3	0.051
				Aluminium natural		**704.041.818**	7	22	3	0.051
				Aluminium olive-green		**704.041.518**	7	22	3	0.051
				Aluminium red		**704.041.218**	7	22	3	0.051
				Plastic black		**704.042.018**	7	22	3	0.051
				Plastic blue		**704.042.618**	7	22	3	0.051
				Plastic colourless		**704.042.718**	7	22	3	0.051
				Plastic green		**704.042.518**	7	22	3	0.051
				Plastic red		**704.042.218**	7	22	3	0.051
				Plastic yellow		**704.042.418**	7	22	3	0.051

Continuation see next page

Downloaded from DatasheetLib.com - datasheet search engine

Continued from previous page

	Front protection	Switching action	Frontbezel/-ring	Lens	⍁ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Pushbutton actuator, flush mounting	IP 65	M	Aluminium natural	Aluminium black		**704.011.018**	7	22	4	0.051
				Aluminium blue		**704.011.618**	7	22	4	0.051
				Aluminium gold		**704.011.418**	7	22	4	0.051
				Aluminium natural		**704.011.818**	7	22	4	0.051
				Aluminium olive-green		**704.011.518**	7	22	4	0.051
				Aluminium red		**704.011.218**	7	22	4	0.051
				Plastic black		**704.012.018**	7	22	4	0.051
				Plastic blue		**704.012.618**	7	22	4	0.051
				Plastic colourless		**704.012.718**	7	22	4	0.051
				Plastic green		**704.012.518**	7	22	4	0.051
				Plastic red		**704.012.218**	7	22	4	0.051
				Plastic yellow		**704.012.418**	7	22	4	0.051

Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Illuminated pushbutton actuator, flush mounting





Essential Accessories:

- Single-LED page 58
- Switching element page 51

	Front protection	Switching action	Frontbezel/-ring	Lens	⧠ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Illuminated pushbutton actuator, flush mounting	IP 65	MA	Plastic black	Plastic blue	**704.259.600**		12	19	3	0.051
				Plastic colourless	**704.259.700**		12	19	3	0.051
				Plastic green	**704.259.500**		12	19	3	0.051
				Plastic red	**704.259.200**		12	19	3	0.051
				Plastic yellow	**704.259.400**		12	19	3	0.051
			Plastic silver	Plastic blue	**704.260.608**		12	19	3	0.051
				Plastic colourless	**704.260.708**		12	19	3	0.051
				Plastic green	**704.260.508**		12	19	3	0.051
				Plastic red	**704.260.208**		12	19	3	0.051
				Plastic yellow	**704.260.408**		12	19	3	0.051
		M	Plastic black	Plastic blue	**704.229.600**		12	19	4	0.051
				Plastic colourless	**704.229.700**		12	19	4	0.051
				Plastic green	**704.229.500**		12	19	4	0.051
				Plastic red	**704.229.200**		12	19	4	0.051
				Plastic yellow	**704.229.400**		12	19	4	0.051
			Plastic silver	Plastic blue	**704.230.608**		12	19	4	0.051
				Plastic colourless	**704.230.708**		12	19	4	0.051
				Plastic green	**704.230.508**		12	19	4	0.051
				Plastic red	**704.230.208**		12	19	4	0.051
				Plastic yellow	**704.230.408**		12	19	4	0.051
		MA	Aluminium natural	Plastic blue		**704.062.618**	7	19	34	0.067
				Plastic colourless		**704.062.718**	7	19	34	0.067
				Plastic green		**704.062.518**	7	19	34	0.067
				Plastic red		**704.062.218**	7	19	34	0.067
				Plastic yellow		**704.062.418**	7	19	34	0.067
		M	Aluminium natural	Plastic blue		**704.032.618**	7	19	41	0.067
				Plastic colourless		**704.032.718**	7	19	41	0.067
				Plastic green		**704.032.518**	7	19	41	0.067
				Plastic red		**704.032.218**	7	19	41	0.067
				Plastic yellow		**704.032.418**	7	19	41	0.067

Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Stop pusbutton actuator, flush mounting



Essential Accessories:

Switching element for Emergency-stop pushbutton page 54

	Front protection	Switching action	Front ring	Mushroom had cap	Marking	Ø 40 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Stop pusbutton actuator, flush mounting Twist to unlock clockwise	IP 65	MA	Aluminium black	Plastic red	Arrows	**704.074.210**	10	26	6	0.048
					Stop	**704.075.310**	10	26	6	0.048
			Aluminium natural	Plastic red	Arrows	**704.075.218**	10	26	6	0.048
					Stop	**704.075.318**	10	26	6	0.048

Switching action: MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Mushroom-head pushbutton actuator, flush mounting



Essential Accessories:

Switching element page 51

	Front protection	Front ring	Switching action	Mushroom had cap	Ø 40 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Mushroom-head pushbutton actuator, flush mounting	IP 65	Aluminium black	MA	Plastic red	**704.073.210**	10	27	3	0.041
			M	Plastic red	**704.071.210**	10	27	4	0.041
				Plastic yellow	**704.071.410**	10	27	4	0.041
		Aluminium natural	M	Plastic red	**704.071.218**	10	27	4	0.041
				Plastic yellow	**704.071.418**	10	27	4	0.041

Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

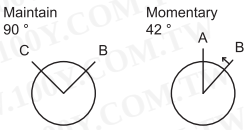
Downloaded from DatasheetLib.com - datasheet search engine

Keylock switch actuator 2 positions, flush mounting



Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Key remove	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Keylock switch actuator 2 positions, flush mounting Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	M	Plastic black	A	**704.343.000**		12	25	44	0.099
			Plastic silver	A	**704.343.008**		12	25	44	0.099
Position C + B : Maintained action 90° Standard lock 251	IP 65	MA	Plastic black	B	**704.340.000**		12	25	45	0.099
				C	**704.341.000**		12	25	45	0.099
				C + B	**704.342.000**		12	25	45	0.099
			Plastic silver	B	**704.340.008**		12	25	45	0.099
				C	**704.341.008**		12	25	45	0.099
				C + B	**704.342.008**		12	25	45	0.099
Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	M	Aluminium natural	A		**704.123.018**	7	25	44	0.099
Position C + B : Maintained action 90° Standard lock 251	IP 65	MA	Aluminium natural	B		**704.120.018**	7	25	45	0.099
				C		**704.121.018**	7	25	45	0.099
				C + B		**704.122.018**	7	25	45	0.099

Switching action: M = Momentary action, MA = Maintained action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

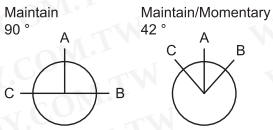
Downloaded from DatasheetLib.com - datasheet search engine

Keylock switch actuator 3 positions, flush mounting



Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Key remove	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Keylock switch actuator 3 positions, flush mounting Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	MA-0-M	Plastic black	C	**704.337.000**		12	25	46	0.099
				C + A	**704.344.000**		12	25	46	0.099
			Plastic silver	C	**704.337.008**		12	25	46	0.099
				C + A	**704.344.008**		12	25	46	0.099
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42° Standard lock 251	IP 65	M-0-MA	Plastic black	A	**704.338.000**		12	25	43	0.099
			Plastic silver	A	**704.338.008**		12	25	43	0.099
Position C + B : Maintained action 42° Position A : Basic position Standard lock 251	IP 65	MA-0-MA	Plastic black	A	**704.334.000**		12	25	47	0.099
				C + B	**704.336.000**		12	25	47	0.099
			Plastic silver	A	**704.334.008**		12	25	47	0.099
				C + B	**704.336.008**		12	25	47	0.099
Position C + B : Maintained action 90° Position A : Basic position Standard lock 251	IP 65	MA-0-MA	Plastic black	C + A + B	**704.333.000**		12	25	47	0.099
			Plastic silver	C + A + B	**704.333.008**		12	25	47	0.099
Position C + B : Momentary action 42° Position A : Basic position Standard lock 251	IP 65	M-0-M	Plastic black	A	**704.335.000**		12	25	42	0.099
			Plastic silver	A	**704.335.008**		12	25	42	0.099
Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42° Standard lock 251	IP 65	MA-0-M	Aluminium natural	C		**704.117.018**	7	25	46	0.099
				C + A		**704.124.018**	7	25	46	0.099
Position C : Momentary action 42° Position A : Basic position Position B: Maintained action 42° Standard lock 251	IP 65	M-0-MA	Aluminium natural	A		**704.118.018**	7	25	43	0.099
Position C + B : Maintained action 42° Position A : Basic position Standard lock 251	IP 65	MA-0-MA	Aluminium natural	A		**704.114.018**	7	25	47	0.099
				C + B		**704.116.018**	7	25	47	0.099
Position C + B : Maintained action 90° Position A : Basic position Standard lock 251	IP 65	MA-0-MA	Aluminium natural	C + A + B		**704.113.018**	7	25	47	0.099
Position C + B : Momentary action 42° Position A : Basic position Standard lock 251	IP 65	M-0-M	Aluminium natural	A		**704.115.018**	7	25	42	0.099

Switching action: MA = Maintained action, M = Momentary action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

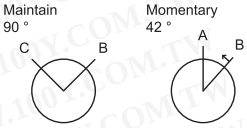
Selector switch actuator 2 positions, short lever, flush mounting






Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	⧠ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, short lever, flush mounting Position A : Basic position Position B : Momentary action 42°	IP 65	M	Plastic black	Plastic black	**704.512.000**		12	23	37	0.056
			Plastic silver	Plastic black	**704.512.008**		12	23	37	0.056
Position C + B : Maintained action 90°	IP 65	MA	Plastic black	Plastic black	**704.510.000**		12	23	38	0.056
			Plastic silver	Plastic black	**704.510.008**		12	23	38	0.056
Position A : Basic position Position B : Momentary action 42°	IP 65	M	Aluminium black	Plastic black		**704.413.010**	7	23	37	0.056
			Aluminium natural	Plastic black		**704.413.018**	7	23	37	0.056
Position C + B : Maintained action 90°	IP 65	MA	Aluminium black	Plastic black		**704.411.010**	7	23	38	0.056
			Aluminium natural	Plastic black		**704.411.018**	7	23	38	0.056

Switching action: M = Momentary action, MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

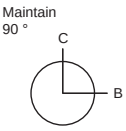
Selector switch actuator 2 positions, short lever, 12 o'clock, flush mounting





Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	⧠ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, short lever, 12 o'clock, flush mounting Position C + B : Maintained action 90°	IP 65	MA	Plastic black	Plastic black	**704.510.000.12**		12	23	38	0.056
			Plastic silver	Plastic black	**704.510.008.12**		12	23	38	0.056
			Aluminium black	Plastic black		**704.411.010.12**	7	23	38	0.056
			Aluminium natural	Plastic black		**704.411.018.12**	7	23	38	0.056

Switching action: MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

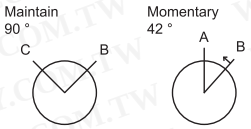
Selector switch actuator 2 positions, long lever, flush mounting






Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, long lever, flush mounting Position A : Basic position Position B : Momentary action 42°	IP 65	M	Plastic black	Plastic black	**704.302.000**		13	16	37	0.056
			Plastic silver	Plastic black	**704.302.008**		13	16	37	0.056
Position C + B : Maintained action 90°	IP 65	MA	Plastic black	Plastic black	**704.300.000**		13	16	38	0.056
			Plastic silver	Plastic black	**704.300.008**		13	16	38	0.056
Position A : Basic position Position B : Momentary action 42°	IP 65	M	Aluminium natural	Plastic black		**704.103.018**	7	16	37	0.056
Position C + B : Maintained action 90°	IP 65	MA	Aluminium natural	Plastic black		**704.101.018**	7	16	38	0.056
			Plastic black	Plastic black		**704.101.010**	7	16	38	0.056

Switching action: M = Momentary action, MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

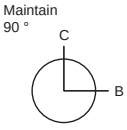
Selector switch actuator 2 positions, long lever, 12 o'clock, flush mounting





Essential Accessories:

Switching element page 51



	Front protection	Switching action	Frontbezel/-ring	Lever	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 2 positions, long lever, 12 o'clock, flush mounting Position C + B : Maintained action 90°	IP 65	MA	Plastic black	Plastic black	**704.300.000.12**		13	16	38	0.056
			Plastic silver	Plastic black	**704.300.008.12**		13	16	38	0.056
			Aluminium natural	Plastic black		**704.101.018.12**	7	16	38	0.056
			Plastic black	Plastic black		**704.101.010.12**	7	16	38	0.056

Switching action: MA = Maintained action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Selector switch actuator 3 positions, short lever, flush mounting





Essential Accessories:

Switching element page 51

Maintain/Momentary 42 °	Front protection	Switching action	Frontbezel/-ring	Lever	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 3 positions, short lever, flush mounting Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Plastic black	Plastic black	**704.506.000**		12	23	39	0.056
			Plastic silver	Plastic black	**704.506.008**		12	23	39	0.056
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Plastic black	Plastic black	**704.508.000**		12	23	36	0.056
			Plastic silver	Plastic black	**704.508.008**		12	23	36	0.056
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Plastic black	Plastic black	**704.502.000**		12	23	40	0.056
			Plastic silver	Plastic black	**704.502.008**		12	23	40	0.056
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Plastic black	Plastic black	**704.504.000**		12	23	35	0.056
			Plastic silver	Plastic black	**704.504.008**		12	23	35	0.056
Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Aluminium black	Plastic black		**704.407.010**	7	23	39	0.056
			Aluminium natural	Plastic black		**704.407.018**	7	23	39	0.056
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Aluminium black	Plastic black		**704.409.010**	7	23	36	0.056
			Aluminium natural	Plastic black		**704.409.018**	7	23	36	0.056
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Aluminium black	Plastic black		**704.403.010**	7	23	40	0.056
			Aluminium natural	Plastic black		**704.403.018**	7	23	40	0.056
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Aluminium black	Plastic black		**704.405.010**	7	23	35	0.056
			Aluminium natural	Plastic black		**704.405.018**	7	23	35	0.056

Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Selector switch actuator 3 positions, long lever, flush mounting

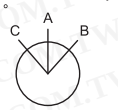




Essential Accessories:

Switching element page 51

Maintain/Momentary 42 °



	Front protection	Switching action	Frontbezel/-ring	Lever	□ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
Selector switch actuator 3 positions, long lever, flush mounting Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Plastic black	Plastic black	**704.296.000**		13	23	39	0.056
			Plastic silver	Plastic black	**704.296.008**		13	23	39	0.056
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Plastic black	Plastic black	**704.298.000**		13	16	36	0.056
			Plastic silver	Plastic black	**704.298.008**		13	16	36	0.056
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Plastic black	Plastic black	**704.292.000**		13	16	40	0.056
			Plastic silver	Plastic black	**704.292.008**		13	16	40	0.056
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Plastic black	Plastic black	**704.294.000**		13	16	35	0.056
			Plastic silver	Plastic black	**704.294.008**		13	16	35	0.056
Position C : Maintained action 42° Position A : Basic position Position B : Momentary action 42°	IP 65	MA-0-M	Aluminium black	Plastic black		**704.097.010**	8	16	39	0.056
			Aluminium natural	Plastic black		**704.097.018**	8	16	39	0.056
Position C : Momentary action 42° Position A : Basic position Position B : Maintained action 42°	IP 65	M-0-MA	Aluminium black	Plastic black		**704.099.010**	8	16	36	0.056
			Aluminium natural	Plastic black		**704.099.018**	8	16	36	0.056
Position C + B : Maintained action 42° Position A : Basic position	IP 65	MA-0-MA	Aluminium black	Plastic black		**704.093.010**	8	16	40	0.056
			Aluminium natural	Plastic black		**704.093.018**	8	16	40	0.056
Position C + B : Momentary action 42° Position A : Basic position	IP 65	M-0-M	Aluminium black	Plastic black		**704.095.010**	8	16	35	0.056
			Aluminium natural	Plastic black		**704.095.018**	8	16	35	0.056

Switching action: MA = Maintained action, M = Momentary action

Mounting dimensions from page 91, Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Rotary selector switch actuator, short lever, flush mounting



Essential Accessories:

- Rotary selector switching element 30° page 55
- Rotary selector switching element 45° page 55
- Rotary selector switching element 60° page 56

	Front protection	Frontbezel/-ring	Lever	⍁ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Rotary selector switch actuator, short lever, flush mounting Position 0 : nine o'clock	IP 65	Plastic black	Plastic black	**704.510.100KN**		14	71	0.056
		Plastic silver	Plastic black	**704.510.108KN**		14	71	0.056
		Aluminium black	Plastic black		**704.411.110KN**	1	71	0.056
		Aluminium natural	Plastic black		**704.411.118KN**	1	71	0.056
Position 0 : twelve o'clock	IP 65	Aluminium black	Plastic black		**704.411.010KN**	1	71	0.056

Mounting dimensions from page 91, Technical drawing from page 95

Rotary selector switch actuator, long lever, flush mounting



Essential Accessories:

- Rotary selector switching element 30° page 55
- Rotary selector switching element 45° page 55
- Rotary selector switching element 60° page 56

	Front protection	Frontbezel/-ring	Lever	⍁ 35 x 35 mm Typ-Nr.	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Rotary selector switch actuator, long lever, flush mounting Position 0 : nine o'clock	IP 65	Plastic black	Plastic black	**704.300.100KN**		14	72	0.056
		Plastic silver	Plastic black	**704.300.108KN**		14	72	0.056
		Aluminium black	Plastic black		**704.101.110KN**	1	72	0.056
		Aluminium natural	Plastic black		**704.101.118KN**	1	72	0.056
Position 0 : twelve o'clock	IP 65	Aluminium natural	Plastic black		**704.101.018KN**	1	72	0.056

Mounting dimensions from page 91, Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Keylock rotary switch actuator, flush mounting



Essential Accessories:

- Rotary selector switching element 30° page 55
- Rotary selector switching element 45° page 55
- Rotary selector switching element 60° page 56

	Front protection	Front ring	Key remove	Ø 35 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Keylock rotary switch actuator, flush mounting Position 0 : nine o'clock (standard) Standard lock 251	IP 65	Aluminium natural	9 o'clock	**704.123.118KN**	7	73	0.120
Position 0 : twelve o'clock (special) Standard lock 251	IP 65	Aluminium natural	12 o'clock	**704.123.018KN**	7	73	0.120

Mounting dimensions from page 91, Technical drawing from page 95

Key insert switch actuator 2 positions, flush mounting



Essential Accessories:

- Switching element page 51

	Front protection	Switching action	Front ring	Ø 38 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Key insert switch actuator 2 positions, flush mounting	IP 67	0-MA90°	Stainless-steel	**704.101.0x28**	11	1	0.130
		0-M45°	Stainless-steel	**704.103.0x28**	11	1	0.130

In the Typ-Nr. "x" stands for not defined actuator.
Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Key insert switch actuator 3 positions, flush mounting



Essential Accessories:

Switching element page 51

	Front protection	Front ring	Switching action	Ø 38 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Key insert switch actuator 3 positions, flush mounting	IP 67	Stainless-steel	MA45°-0-MA45°	**704.093.0x28**	11	1	0.130
			MA45°-0-M45°	**704.097.0x28**	11	1	0.130
			M45°-0-MA45°	**704.099.0x28**	11	1	0.130
			M45°-0-M45°	**704.095.0x28**	11	1	0.130

In the Typ-Nr. "x" stands for not defined actuator.
Switching action: MA = Maintained action, M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95

Key insert switch actuator 3 positions Conductor Switch, flush mounting



Essential Accessories:

Switching element page 51

	Front protection	Front ring	Switching action	Ø 38 mm Typ-Nr.	Mounting dimensions	Technical drawing	kg
Key insert switch actuator 3 positions Conductor Switch, flush mounting	IP 67	Stainless-steel	M45°-0-M45°	**704.095.0T28**	15	56	0.190

Switching action: M = Momentary action
Mounting dimensions from page 91, Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Lever switch






	Front protection	Front ring	Lever	Switching action	Contacts	Contact material	Ø 40 mm Typ-Nr.	kg
Lever switch Typ S41, Lever-Nr. 11, 1 Contact element	IP 54	Aluminium natural	Plastic black	MA / M	1 NC / 1 NO	Ag	**704.151.XXX**	0.230
Typ S42, Lever-Nr. 11, 1 Contact element	IP 54	Aluminium natural	Plastic black	MA / M	1 NC / 1 NO	Ag	**704.152.XXX**	0.230
Typ S43, Lever-Nr. 11, 1 Contact element	IP 54	Aluminium natural	Plastic black	MA / M	1 NC / 1 NO	Ag	**704.153.XXX**	0.230
Typ S44, Lever-Nr. 11, 1 Contact element positive opened	IP 54	Aluminium natural	Plastic black	MA / M	1 NC / 1 NO	Ag	**704.154.XXX**	0.230
Typ S45, Lever-Nr. 11, 1 Contact element positive opend	IP 54	Aluminium natural	Plastic black	MA / M	1 NC / 1 NO	Ag	**704.155.XXX**	0.230

Connection types
S41: Cage clamp 1.0 ... 1.5 mm²
S42: JST connector max. 0.2 mm² (counter plug is supplied)
S43: Plug-in terminal 6.3 x 0.8 mm
S44:: Cage clamp 1.0 ... 1.5 mm²
S45: Screw terminal or plug-in terminal 6.3 x 0.8 mm.

Micro-switch contacts
The micro-switch is available with a silver contact or a gold plated silver contact.
Contact without positive opening operation:
This is used in the lever switches S41, S42 and S43. Each lever switch includes a maximum of 5 micro-switches.
Contact with positive opening operation:
This is used in the lever switches S44 and S45. Each lever switch includes a maximum of 4 micro-switches.

Levers
There are 8 alternative standard levers (02, 03, 04, 05, 11, 13, 14, 15) available. Special levers are available on request.

Front bezel
Standard front bezel in aluminium natural, can also be delivered in black version.

Note:
Typ-Nr. will be supplied once switching function has been defined including specification of lever style and switching positions.
For further information please contact your local sales office.

A detailed technical documentation is available separately.

Switching action: MA = Maintained action, M = Momentary action
Contacts: NC = Normally closed, NO = Normally open
Contact material: Ag = Silver

Downloaded from DatasheetLib.com - datasheet search engine

Front

Legend frame

adhesive, Aluminium black



	Typ-Nr.	Technical drawing	kg
Legend frame 30 x 50 mm for raised mounting	**704.968.2**	55	0.001
35 x 57.5 mm for flush mounting	**704.968.3**	60	0.001

Technical drawing from page 95

Legend plate insert

for Legend frame 704.968.2 and 704.968.3



	Typ-Nr.	kg
Legend plate insert 14.5 x 23.5 mm, adhesive, Aluminium black	**704.968.1**	0.001
14.5 x 23.5 mm, adhesive, Aluminium natural	**704.968.0**	0.001

Legend plate, square for flush mounting



	Typ-Nr.	kg
Legend plate, square for flush mounting 18 x 35 mm, adhesive, Aluminium black	**704.968.5**	0.001
18 x 35 mm, adhesive, Aluminium natural	**704.968.4**	0.001

Protective cover

Mounting hole size 22.5 mm dia.



	Typ-Nr.	Technical drawing	kg
Protective cover hinged, transparent, with means for sealing, for Pushbutton	**704.925.0**	49	0.007
hinged, transparent, with means for sealing, for Selector switch	**704.925.2**	51	0.007
hinged, transparent, with means for sealing, with spring fitted, for Pushbutton	**704.925.3**	49	0.007

Protective cover only for selector switch in basic position A applicable.
Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Protective cover, flush mounting

Mounting hole size 30.5 mm dia.

	Typ-Nr.	Technical drawing	[kg]
Protective cover, flush mounting hinged, Aluminium natural, with means for sealing, for Pushbutton and Selector switch short lever	**704.928.38**	53	0.019
hinged, Aluminium natural, with means for sealing, spring fitted, for Pushbutton and Selector switch short lever	**704.928.28**	50	0.019
hinged, Aluminium natural, with window, spring fitted, for Pushbutton	**704.928.18**	52	0.019
hinged, transparent, with means for sealing, for Pushbutton	**704.925.7**	54	0.006



Technical drawing from page 95

Blind plug

	Blind plug	Typ-Nr.	Technical drawing	[kg]
Blind plug Size 28 mm dia., for mounting hole 22.5 mm dia.	Plastic black	**704.960.4**	46	0.004
Size 30 x 30 mm, for mounting hole 22.5 mm dia.	Plastic black	**704.964.7**	43	0.009
Size 35 x 35 mm, for mounting hole 30 x 30 mm	Plastic black	**704.964.9**	45	0.009
Size 36 mm dia., for mounting hole 30.5 mm dia.	Plastic black	**704.964.8**	44	0.007



Technical drawing from page 95

Spare key

	Typ-Nr.	[kg]
Spare key Standard lock 251	**704.989.251**	0.006



Other lock numbers on request

Downloaded from DatasheetLib.com - datasheet search engine

Backside

Flasher element



	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	[kg]
Flasher element Operating voltage : 115 VAC ±10 %, 50/60 Hz Lamp voltage/-current : 60 V, 33 mA	ST	**704.943.1**	32	12	0.024
Operating voltage : 130 VDC ±10 % Lamp voltage/-current : 130 V, 3 mA	ST	**704.943.2**	32	12	0.024
Operating voltage : 230 VAC -10 % ... +6 %, 50/60 Hz Lamp voltage/-current : 130 V, 20 mA	ST	**704.943.0**	32	12	0.024
Operating voltage : 24 VDC ±15 % Lamp voltage/-current : 24 V, 10 mA ... 85 mA	ST	**704.943.5**	32	12	0.024

Further information in the Technical Data and Typical Applications
Terminals: ST = Screw terminal
Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Switching element



	Switch rating	Switching system	Contacts	Contact material	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Switching element	250 VAC, 6 A	SA	1 NC	Au-Ag	PIT	**704.907.2**	28	7	0.020
				Ag-Cu	PIT	**704.908.2**	28	7	0.020
			1 NC + 1 NO	Au-Ag	PIT	**704.907.5**	28	48	0.027
				Ag-Cu	PIT	**704.908.5**	28	48	0.027
			1 NO	Au-Ag	PIT	**704.907.1**	28	8	0.020
				Ag-Cu	PIT	**704.908.1**	28	8	0.020
			2 NC	Au-Ag	PIT	**704.907.4**	28	50	0.027
				Ag-Cu	PIT	**704.908.4**	28	50	0.027
			2 NO	Au-Ag	PIT	**704.907.3**	28	49	0.027
				Ag-Cu	PIT	**704.908.3**	28	49	0.027
	500 VAC, 10 A	SM	1 NC	Au-Ag	ST	**704.911.2**	29	7	0.021
				Ag-Cu	D-PT 6.3	**704.915.2/D**	31	7	0.025
					PT 6.3	**704.915.2**	30	7	0.021
					ST	**704.910.2**	29	7	0.021
				Ag-Pd	ST	**704.912.2**	29	7	0.021
			1 NC + 1 NO	Au-Ag	ST	**704.911.5**	29	48	0.028
				Ag-Cu	D-PT 6.3	**704.915.5/D**	31	48	0.032
					PT 6.3	**704.915.5**	30	48	0.028
					ST	**704.910.5**	29	48	0.028
				Ag-Pd	ST	**704.912.5**	29	48	0.028
			1 NO	Au-Ag	ST	**704.911.1**	29	8	0.021
				Ag-Cu	D-PT 6.3	**704.915.1/D**	31	8	0.025
					PT 6.3	**704.915.1**	30	8	0.021
					ST	**704.910.1**	29	8	0.021
				Ag-Pd	ST	**704.912.1**	29	8	0.021
			2 NC	Au-Ag	ST	**704.911.4**	29	50	0.028
				Ag-Cu	D-PT 6.3	**704.915.4/D**	31	50	0.032
					PT 6.3	**704.915.4**	30	50	0.028
					ST	**704.910.4**	29	50	0.028
				Ag-Pd	ST	**704.912.4**	29	50	0.028
			2 NO	Au-Ag	ST	**704.911.3**	29	49	0.028
				Ag-Cu	D-PT 6.3	**704.915.3/D**	31	49	0.032
					PT 6.3	**704.915.3**	30	49	0.028
					ST	**704.910.3**	29	49	0.028
				Ag-Pd	ST	**704.912.3**	29	49	0.028

Continuation see next page

Downloaded from DatasheetLib.com - datasheet search engine

Continued from previous page

	Switch rating	Switching system	Contacts	Contact material	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Switching element	500 VAC, 10 A	SA	1 NC	Au-Ag	D-PT 6.3	**704.901.2/D**	31	7	0.026
					ST	**704.901.2**	29	7	0.021
				Ag-Cu	D-PT 6.3	**704.905.2/D**	31	7	0.026
					PT 6.3	**704.905.2**	30	7	0.021
					ST	**704.900.2**	29	7	0.021
				Ag-Pd	ST	**704.902.2**	29	7	0.021
			1 NC + 1 NO	Au-Ag	D-PT 6.3	**704.901.5/D**	31	48	0.033
					ST	**704.901.5**	29	48	0.028
				Ag-Cu	D-PT 6.3	**704.905.5/D**	31	48	0.033
					PT 6.3	**704.905.5**	30	48	0.028
					ST	**704.900.5**	29	48	0.028
				Ag-Pd	ST	**704.902.5**	29	48	0.028
			1 NO	Au-Ag	D-PT 6.3	**704.901.1/D**	31	8	0.026
					ST	**704.901.1**	29	8	0.021
				Ag-Cu	D-PT 6.3	**704.905.1/D**	31	8	0.026
					PT 6.3	**704.905.1**	30	8	0.021
					ST	**704.900.1**	29	8	0.021
				Ag-Pd	ST	**704.902.1**	29	8	0.021
			2 NC	Au-Ag	D-PT 6.3	**704.901.4/D**	31	50	0.033
					ST	**704.901.4**	29	50	0.028
				Ag-Cu	D-PT 6.3	**704.905.4/D**	31	50	0.033
					PT 6.3	**704.905.4**	30	50	0.028
					ST	**704.900.4**	29	50	0.028
				Ag-Pd	ST	**704.902.4**	29	50	0.028
			2 NO	Au-Ag	D-PT 6.3	**704.901.3/D**	31	49	0.033
					ST	**704.901.3**	29	49	0.028
				Ag-Cu	D-PT 6.3	**704.905.3/D**	31	49	0.033
					PT 6.3	**704.905.3**	30	49	0.028
					ST	**704.900.3**	29	49	0.028
				Ag-Pd	ST	**704.902.3**	29	49	0.028

For the 3rd switching element per switch the terminal marking insert is to be ordered separately.
Switching system: SA = Snap-action switching element, SM = Slow-make switching element
Contacts: NC = Normally closed, NO = Normally open
Contact material: Au-Ag = Gold-Silver, Ag-Cu = Hard silver, Ag-Pd = Silver-Palladium
Terminals: PIT = PIT Spring terminal, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm, PT 6.3 = Plug-in terminal 6.3 mm
Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Switching element for ring cable shoe



	Switching system	Contacts	Contact material	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Switching element for ring cable shoe	SM	1 NC	Au-Ag	ST	**704.911.2B**	29	7	0.021
			Ag-Cu	ST	**704.910.2B**	29	7	0.021
		1 NC + 1 NO	Au-Ag	ST	**704.911.5B**	29	48	0.028
			Ag-Cu	ST	**704.910.5B**	29	48	0.028
		1 NO	Au-Ag	ST	**704.911.1B**	29	8	0.021
			Ag-Cu	ST	**704.910.1B**	29	8	0.021
		2 NC	Au-Ag	ST	**704.911.4B**	29	50	0.028
			Ag-Cu	ST	**704.910.4B**	29	50	0.028
		2 NO	Au-Ag	ST	**704.911.3B**	29	49	0.028
			Ag-Cu	ST	**704.910.3B**	29	49	0.028
	SA	1 NC	Ag-Cu	ST	**704.900.2B**	29	7	0.021
		1 NC + 1 NO	Ag-Cu	ST	**704.900.5B**	29	48	0.028
		1 NO	Ag-Cu	ST	**704.900.1B**	29	8	0.021
		2 NC	Ag-Cu	ST	**704.900.4B**	29	50	0.028
		2 NO	Ag-Cu	ST	**704.900.3B**	29	49	0.028

Switching system: SM = Slow-make switching element, SA = Snap-action switching element
Contacts: NC = Normally closed, NO = Normally open
Contact material: Au-Ag = Gold-Silver, Ag-Cu = Hard silver
Terminals: ST = Screw terminal
Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Switching element for Emergency-stop pushbutton



	Switch rating	Switching system	Contacts	Contact material	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Switching element for Emergency-stop pushbutton	250 VAC, 6 A	SM	1 NC	Au-Ag	PIT	**704.917.2**	28	7	0.019
				Ag-Cu	PIT	**704.918.2**	28	7	0.019
			1 NC + 1 NO	Au-Ag	PIT	**704.917.5**	28	48	0.026
				Ag-Cu	PIT	**704.918.5**	28	48	0.026
			1 NO	Au-Ag	PIT	**704.917.1**	28	8	0.019
				Ag-Cu	PIT	**704.918.1**	28	8	0.019
			2 NC	Au-Ag	PIT	**704.917.4**	28	50	0.019
				Ag-Cu	PIT	**704.918.4**	28	50	0.019
			2 NO	Au-Ag	PIT	**704.917.3**	28	49	0.026
				Ag-Cu	PIT	**704.918.3**	28	49	0.026
	500 VAC, 10 A	SM	1 NC	Au-Ag	ST	**704.911.2**	29	7	0.021
				Ag-Cu	D-PT 6.3	**704.915.2/D**	31	7	0.025
					PT 6.3	**704.915.2**	30	7	0.021
					ST	**704.910.2**	29	7	0.021
				Ag-Pd	ST	**704.912.2**	29	7	0.021
			1 NC + 1 NO	Au-Ag	ST	**704.911.5**	29	48	0.028
				Ag-Cu	D-PT 6.3	**704.915.5/D**	31	48	0.032
					PT 6.3	**704.915.5**	30	48	0.028
					ST	**704.910.5**	29	48	0.028
				Ag-Pd	ST	**704.912.5**	29	48	0.028
			1 NO	Au-Ag	ST	**704.911.1**	29	8	0.021
				Ag-Cu	D-PT 6.3	**704.915.1/D**	31	8	0.025
					PT 6.3	**704.915.1**	30	8	0.021
					ST	**704.910.1**	29	8	0.021
				Ag-Pd	ST	**704.912.1**	29	8	0.021
			2 NC	Au-Ag	ST	**704.911.4**	29	50	0.028
				Ag-Cu	D-PT 6.3	**704.915.4/D**	31	50	0.032
					PT 6.3	**704.915.4**	30	50	0.028
					ST	**704.910.4**	29	50	0.028
				Ag-Pd	ST	**704.912.4**	29	50	0.028
			2 NO	Au-Ag	ST	**704.911.3**	29	49	0.028
				Ag-Cu	D-PT 6.3	**704.915.3/D**	31	49	0.032
					PT 6.3	**704.915.3**	30	49	0.028
					ST	**704.910.3**	29	49	0.028
				Ag-Pd	ST	**704.912.3**	29	49	0.028

Switching system: SM = Slow-make switching element
Contacts: NC = Normally closed, NO = Normally open
Contact material: Au-Ag = Gold-Silver, Ag-Cu = Hard silver, Ag-Pd = Silver-Palladium
Terminals: PIT = PIT Spring terminal, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm, PT 6.3 = Plug-in terminal 6.3 mm
Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Rotary selector switching element 30°



	Contacts	Stages	Terminals	Typ-Nr.	Circuit drawing	kg
Rotary selector switching element 30° Position a : Start position Position i : End position	9 (1-pole)	5	ST	**704.8A236**	13	0.073
Position a : Start position Position k : End position	10 (1-pole)	5	ST	**704.8A237**	14	0.073
Position a : Start position Position l : End position	11 (1-pole)	6	ST	**704.8A238**	15	0.082
Position a : Start position Position m : End position	12 (1-pole)	6	ST	**704.8A239**	16	0.082
Position a : Start position without stop	12 (1-pole)	6	ST	**704.8A639**	16	0.082

Rotary switching elements are not on stock and have to be ordered as a customised product locally
Terminals: ST = Screw terminal
Circuit drawing from page 115

Rotary selector switching element 45°



	Contacts	Stages	Terminals	Typ-Nr.	Circuit drawing	kg
Rotary selector switching element 45°	7 (1-pole)	4	ST	**704.8A234**	17	0.064
Position a : Start position Position g : End position	7 (2-poles)	7	ST	**704.8A254**	18	0.091
Position a : Start position Position h : End position	8 (1-pole)	4	ST	**704.8A235**	19	0.064
	8 (2-poles)	8	ST	**704.8A255**	20	0.100

Rotary switching elements are not on stock and have to be ordered as a customised product locally
Terminals: ST = Screw terminal
Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Rotary selector switching element 60°



	Contacts	Stages	Terminals	Typ-Nr.	Circuit drawing	kg
Rotary selector switching element 60° Position a : Start position Position c : End position	3 (1-pole)	2	ST	**704.8A230**	21	0.046
	3 (1-pole, DC-isolated)	2	ST	**704.8A730**	32	0.046
	3 (2-poles)	3	ST	**704.8A250**	22	0.055
	3 (3-poles)	5	ST	**704.8A270**	23	0.073
Position a : Start position Position d : End position	4 (1-pole)	2	ST	**704.8A231**	24	0.046
	4 (1-pole, DC isolated)	2	ST	**704.8A731**	33	0.046
	4 (2-poles)	4	ST	**704.8A251**	25	0.064
	4 (3-poles)	6	ST	**704.8A271**	26	0.082
Position a : Start position Position e : End position	5 (1-pole)	3	ST	**704.8A232**	27	0.055
	5 (2-poles)	5	ST	**704.8A252**	28	0.073
	5 (3-poles)	8	ST	**704.8A272**	29	0.100
Position a : Start position Position f : End position	6 (1-pole)	3	ST	**704.8A233**	30	0.055
	6 (2-poles)	6	ST	**704.8A253**	31	0.082

Rotary switching elements are not on stock and have to be ordered as a customised product locally
Terminals: ST = Screw terminal
Circuit drawing from page 115

Terminal cover



	Typ-Nr.	Technical drawing	kg
Terminal cover for covering of screw terminal	**704.964.5**	35	0.003

Technical drawing from page 95

Terminal marking



	Marking	Typ-Nr.	kg
Terminal marking 1 NC + 1 NO (for 1st or 2nd switching element)	13/21 33/41	**704.965.9**	0.001
	22/14 42/34	**704.966.0**	0.001
1 NC + 1 NO (for 3rd switching element)	53/61 73/81	**704.966.1**	0.001
	62/54 82/74	**704.966.2**	0.001
2 NC (for 1st or 2nd switching element)	11/21 31/41	**704.965.5**	0.001
	22/12 42/32	**704.965.6**	0.001
2 NC (for 3rd switching element)	51/61 71/81	**704.965.7**	0.001
	62/52 82/72	**704.965.8**	0.001
2 NO (for 1st or 2nd switching element)	13/23 33/43	**704.965.1**	0.001
	24/14 44/34	**704.965.2**	0.001
2 NO (for 3rd switching element)	53/63 73/83	**704.965.3**	0.001
	64/54 84/74	**704.965.4**	0.001

Downloaded from DatasheetLib.com - datasheet search engine

Illumination

Filament lamp

The max. overall length of the lamp may not exeed 25 mm



	Socket	Operating voltage/-current	Typ-Nr.	kg
Filament lamp	BA9s	110 VAC/DC, 22 mA	**10-1422.1179**	0.002
		12 VAC/DC, 100 mA	**10-1409.1329**	0.002
		130 VAC/DC, 20 mA	**10-1424.1179**	0.002
		24 VAC/DC, 50 mA	**10-1412.1279**	0.002
		36 VAC/DC, 56 mA	**10-1416.1289**	0.002
		48 VAC/DC, 42 mA	**10-1419.1249**	0.002
		6 VAC/DC, 200 mA	**10-1406.1369**	0.002
		60 VAC/DC, 33 mA	**10-1420.1219**	0.002

Downloaded from DatasheetLib.com - datasheet search engine

Single-LED

The max. overall length of the lamp may not exeed 25 mm



	Socket	Light colour	Operating voltage/-current	Typ-Nr.	kg
Single-LED	BA9s	blue	12 VAC/DC, 16 mA	**10-2509.1146**	0.002
			130 VAC, 5 mA	**10-2H24.2056**	0.002
			230 VAC, 3 mA	**10-2H25.2046**	0.002
			24 VAC/DC, 15 mA	**10-2512.1146**	0.002
			28 VAC/DC, 13 mA	**10-2513.1146**	0.002
			48 VAC/DC, 8 mA	**10-2519.1056**	0.002
			6 VDC, 17 mA	**10-2506.1086**	0.002
		green	12 VAC/DC, 7 mA	**10-2509.1145**	0.002
			130 VAC, 3 mA	**10-2H24.2055**	0.002
			230 VAC, 2 mA	**10-2H25.2045**	0.002
			24 VAC/DC, 7 mA	**10-2512.1145**	0.002
			28 VAC/DC, 7 mA	**10-2513.1145**	0.002
			48 VAC/DC, 4 mA	**10-2519.1055**	0.002
			6 VDC, 7 mA	**10-2506.1085**	0.002
		red	12 VAC/DC, 16 mA	**10-2509.1142**	0.002
			130 VAC, 5 mA	**10-2H24.2052**	0.002
			230 VAC, 3 mA	**10-2H25.2042**	0.002
			24 VAC/DC, 15 mA	**10-2512.1142**	0.002
			28 VAC/DC, 13 mA	**10-2513.1142**	0.002
			48 VAC/DC, 8 mA	**10-2519.1052**	0.002
			6 VDC, 17 mA	**10-2506.1082**	0.002
		white diffuse	12 VAC/DC, 16 mA	**10-2509.1149**	0.002
			130 VAC, 5 mA	**10-2H24.2059**	0.002
			230 VAC, 3 mA	**10-2H25.2049**	0.002
			24 VAC/DC, 15 mA	**10-2512.1149**	0.002
			28 VAC/DC, 13 mA	**10-2513.1149**	0.002
			48 VAC/DC, 8 mA	**10-2519.1059**	0.002
			6 VDC, 17 mA	**10-2506.1089**	0.002
		yellow	12 VAC/DC, 16 mA	**10-2509.1144**	0.002
			130 VAC, 5 mA	**10-2H24.2054**	0.002
			230 VAC, 3 mA	**10-2H25.2044**	0.002
			24 VAC/DC, 15 mA	**10-2512.1144**	0.002
			28 VAC/DC, 13 mA	**10-2513.1144**	0.002
			48 VAC/DC, 8 mA	**10-2519.1054**	0.002
			6 VDC, 17 mA	**10-2506.1084**	0.002

Note:
AC operation through halve-wave rectifier possible, slight flickering can occure.
12, 24, 28, 48 VAC/DC versions with bridge rectifier. Used on a DC voltage and AC voltage with the same light output.

Diode block



	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Diode block 2 Diodes 1N4007	ST	**704.942.5**	34	2	0.019

Terminals: ST = Screw terminal
Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Lamp transformer

Lamp voltage/-current : 24 VAC, 50 mA, 50/60 Hz



	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp transformer Operating voltage : 115 VAC / 24 VAC	ST	**704.970.3**	33	9	0.100
Operating voltage : 230 VAC / 24 VAC	ST	**704.970.4**	33	9	0.100
Operating voltage : 400 VAC / 24 VAC	ST	**704.970.5**	33	9	0.100
Operating voltage : 440 VAC / 24 VAC	ST	**704.970.6**	33	9	0.100

Terminals: ST = Screw terminal
Technical drawing from page 95, Circuit drawing from page 115

Resistor block

Lamp voltage/-current : 130 V, 20mA und 60 V, 33 mA



	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Resistor block Operating voltage : 125 VAC / 60 VAC	ST	**704.941.5**	34	10	0.006
Operating voltage : 230 VAC / 130 VAC	ST	**704.941.0**	34	10	0.017

Terminals: ST = Screw terminal
Technical drawing from page 95, Circuit drawing from page 115

Resistor-diode block

Lamp voltage/-current : 130 V, 20mA



	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Resistor-diode block Operating voltage : 230 VAC / 130 VAC	ST	**704.941.9**	34	11	0.017

Terminals: ST = Screw terminal
Technical drawing from page 95, Circuit drawing from page 115

Terminal plate empty

for fitting with series resistors



	Typ-Nr.	kg
Terminal plate empty 10 spaces 125 x 60 x 15 mm	**02-912.2**	0.045
15 spaces 187.5 x 60 x 15 mm	**02-912.3**	0.090
20 spaces 250 x 60 x 15 mm	**02-912.4**	0.095
5 spaces 62.5 x 60 x 15 mm	**02-912.1**	0.025

Downloaded from DatasheetLib.com - datasheet search engine

Emergency-stop pushbutton

Emergency-stop label

front panel thickness 3 mm max.



	Marking	Typ-Nr.	kg
Emergency-stop label 60 mm dia., yellow, Mounting hole size 22.5 mm dia.	ARRET D'URGENCE	**704.963.7**	0.011
	EMERGENCY STOP	**704.963.6**	0.011
	NOT AUS	**704.963.5**	0.011
	NOT HALT	**704.963.8**	0.011
90 mm dia., yellow, Mounting hole size 22.5 mm dia.	ARRET D'URGENCE	**704.963.2**	0.011
	EMERGENCY STOP	**704.963.1**	0.011
	NOT AUS	**704.963.0**	0.011
	NOT HALT	**704.963.3**	0.011

Emergency-stop protective shroud

use only for Typ-Nr. 704.064.2 und 704.066.2



	Typ-Nr.	Technical drawing	kg
Emergency-stop protective shroud Plastic yellow, 50 mm dia., IP 65	**704.927.8**	58	0.024
Plastic yellow, 50 mm dia., IP 65, SEMI S2-93/12.4.c	**704.927.9**	59	0.052

The protection ring is not suitable for a proper use of Emergency-stop pushbutton. It can obstruct a spontaneous operation of the Emergency-stop pushbutton.
Technical drawing from page 95

Emergency-stop enclosures

Bottom grey similar RAL 7035; cover lead-sealable, yellow similar RAL 1004



	Dimension	Typ-Nr.	Technical drawing	kg
Emergency-stop enclosures with mounting hole size 22.5 mm dia., with anti-twist device	L 65 mm, W 65 mm, H 81 mm	**704.945.7**	61	0.127
	L 94 mm, W 65 mm, H 81 mm	**704.945.8**	62	0.157
	L 94 mm, W 94 mm, H 81 mm	**704.945.0**	63	0.195

Openings for cable gland M16 or M20.
Protection class IP 66.
Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Cable gland



	Typ-Nr.	kg
Cable gland M16, Plastic grey	**61-9481.6**	0.007
M20, Plastic grey	**704.945.6**	0.011

with traction relief; protection degree IP 68.

Assembling

Anti-twist ring, flush mounting



	Typ-Nr.	kg
Anti-twist ring, flush mounting	**704.954.0**	0.002

Reducing ring

Devices 22.5 mm dia. in mounting hole size 30.5 mm dia.



	Typ-Nr.	Technical drawing	kg
Reducing ring Aluminium black	**704.960.0**	57	0.004
Aluminium natural	**704.960.8**	57	0.004

With the metal bayonet flange you can use one reduction ring. If you have a plastic bayonet flange you need to install two reduction rings.
Technical drawing from page 95

Mounting plate

for separate mounting of lamp transformer, resistor block or capacitor block



	Typ-Nr.	Technical drawing	kg
Mounting plate	**704.940.8**	36	0.006

Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Snap-on base

to snap-on, for seperate mounting of lamp transformer, resistor block or capacitor block



	Typ-Nr.	Technical drawing	kg
Snap-on base DIN mounting bar EN 50022	**704.941.1**	38	0.006
DIN mounting bar EN 50035	**704.940.9**	37	0.006

Technical drawing from page 95

Reinforcement plate

for thin front panel and plastic case



	Typ-Nr.	kg
Reinforcement plate 44 x 29 x 2 mm, mounting hole 22,5 mm dia., sheet steel galvanized yellow passivated	**704.960.9**	0.014

Lens plug for round lens, flush mounting

with lamp remover function (BA9s)

	Typ-Nr.	kg
Lens plug for round lens, flush mounting for mounting and dismantling of Lens round, flush mounting	**700.006.0**	0.003

Lens remover for square lens, flush mounting



	Typ-Nr.	kg
Lens remover for square lens, flush mounting	**98-968**	0.004

Mounting tool for Indicator

for Indicators full-face illumination, compact



	Typ-Nr.	kg
Mounting tool for Indicator for tightening (or loosening) of the Fixing nut	**700.005.0**	0.020

Mounting tool for Key insert switch



	Typ-Nr.	kg
Mounting tool for Key insert switch for tightening (or loosening) of the Fixing nut	**704.990.0**	0.020

Downloaded from DatasheetLib.com - datasheet search engine

Enclosure

Grey similar RAL 7035; cover lead-sealable



	Dimension	Typ-Nr.	Technical drawing	kg
Enclosure with mounting hole 1 x 22.5 mm dia., with anti-twist device	L 94 mm, W 94 mm, H 81 mm	**704.945.1**	63	0.211
with mounting hole 2 x 22.5 mm dia., with anti-twist device	L 130 mm, W 94 mm, H 81 mm	**704.945.2**	64	0.251
with mounting hole 3 x 22.5 mm dia., with anti-twist device	L 180 mm, W 94 mm, H 81 mm	**704.945.3**	65	0.313
with mounting hole 4 x 22.5 mm dia., with anti-twist device	L 180 mm, W 182 mm, H 110 mm	**704.945.4**	66	0.572
with mounting hole 6 x 22.5 mm dia., with anti-twist device	L 180 mm, W 182 mm, H 110 mm	**704.945.5**	67	0.568

Openings for cable gland M16 or M20.
Protection class IP 66.
Technical drawing from page 95

Cable gland



	Typ-Nr.	kg
Cable gland M16, Plastic grey	**61-9481.6**	0.007
M20, Plastic grey	**704.945.6**	0.011

with traction relief; protection degree IP 68.

Downloaded from DatasheetLib.com - datasheet search engine

Indicator compact

Indicator actuator for Indicator compact



	Housing	Ø 29 mm Typ-Nr.	Circuit drawing	kg
Indicator actuator for Indicator compact with series resistor for 110/125 V and incandescent lamp 60 V, 33 mA	Plastic grey	**704.642.1**	5	0.020
with series resistor for 220/240 V and incandescent lamp 130 V, 20 mA	Plastic grey	**704.642.2**	5	0.009
without built-in series resistor	Plastic grey	**704.642.0**	5	0.006

Circuit drawing from page 115

Lens cap round, plastic



	Lens cap	Ø 29 mm Typ-Nr.	kg
Lens cap round, plastic	blue transparent	**704.603.6**	0.003
	colourless transparent	**704.603.7**	0.003
	green transparent	**704.603.5**	0.003
	red transparent	**704.603.2**	0.003
	yellow transparent	**704.603.4**	0.003

Marking cap for Lens cap round



	Marking cap	Typ-Nr.	kg
Marking cap for Lens cap round LED	Plastic colourless transparent ribbed	**704.608.7**	0.002
LED and Filament lamp	Plastic white translucent	**704.608.9**	0.002

Indicator and Flasher round, full face illumination

Indicator actuator round, full face illumination



	Housing	Ø 29 mm Typ-Nr.	kg
Indicator actuator round, full face illumination	Plastic grey	**704.630.1**	0.020

Downloaded from DatasheetLib.com - datasheet search engine

Lens cap round, plastic

	Lens cap	Ø 29 mm Typ-Nr.	kg
Lens cap round, plastic	blue transparent	**704.603.6**	0.003
	colourless transparent	**704.603.7**	0.003
	green transparent	**704.603.5**	0.003
	red transparent	**704.603.2**	0.003
	yellow transparent	**704.603.4**	0.003



Marking cap for Lens cap round

	Marking cap	Typ-Nr.	kg
Marking cap for Lens cap round LED	Plastic colourless transparent ribbed	**704.608.7**	0.002
LED and Filament lamp	Plastic white translucent	**704.608.9**	0.002



Bayonet flange

	Typ-Nr.	Technical drawing	kg
Bayonet flange Metal	**704.960.5**	48	0.025
Plastic	**704.950.5**	47	0.015



Technical drawing from page 95

Lamp block

	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp block Spring terminal	PIT	**704.950.3**	42	5	0.014
Standard	PT 6.3	**704.950.1**	40	5	0.012
	ST	**704.950.0**	39	5	0.012
Terminals Cu/Sn nickel plated	D-PT 6.3	**704.950.2/D**	41	5	0.013
Terminals Cu/Sn nickel plated and blank	D-PT 6.3	**704.950.1/D**	41	5	0.013
Terminals for ring cable shoe	ST	**704.950.0B**	39	5	0.013



Terminals: PIT = PIT Spring terminal, PT 6.3 = Plug-in terminal 6.3 mm, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm

Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Indicator and Flasher square, full face illumination

Indicator actuator square, full face illumination



	Housing	⏍ 30 x 30 mm Typ-Nr.	kg
Indicator actuator square, full face illumination	Plastic black	**704.730.0**	0.005
	Plastic grey	**704.730.1**	0.005

Lens cap square, plastic



	Lens cap	⏍ 30 x 30 mm Typ-Nr.	kg
Lens cap square, plastic	blue transparent	**704.703.6**	0.003
	colourless transparent	**704.703.7**	0.003
	green transparent	**704.703.5**	0.003
	red transparent	**704.703.2**	0.003
	yellow transparent	**704.703.4**	0.003

Diffusor cap for Lens cap square



	Diffusor cap	⏍ 30 x 30 mm Typ-Nr.	kg
Diffusor cap for Lens cap square can be marked	Plastic white	**704.708.9**	0.004
LED	Plastic colourless	**704.708.7**	0.004

Marking foil for Lens square



	Marking foil	Typ-Nr.	kg
Marking foil for Lens square can be hot stamped	Plastic colourless transparent	**704.706.7**	0.001

Bayonet flange



	Typ-Nr.	Technical drawing	kg
Bayonet flange Metal	**704.960.5**	48	0.025
Plastic	**704.950.5**	47	0.015

Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Lamp block

	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp block Spring terminal	PIT	**704.950.3**	42	5	0.014
Standard	PT 6.3	**704.950.1**	40	5	0.012
	ST	**704.950.0**	39	5	0.012
Terminals Cu/Sn nickel plated	D-PT 6.3	**704.950.2/D**	41	5	0.013
Terminals Cu/Sn nickel plated and blank	D-PT 6.3	**704.950.1/D**	41	5	0.013
Terminals for ring cable shoe	ST	**704.950.0B**	39	5	0.013



Terminals: PIT = PIT Spring terminal, PT 6.3 = Plug-in terminal 6.3 mm, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm
Technical drawing from page 95, Circuit drawing from page 115

Indicator and Flasher round, front illumination

Indicator actuator round, front illumination

	Housing	Typ-Nr.	kg
Indicator actuator round, front illumination	Plastic grey	**704.633.1**	0.020



Lens round, flush, plastic

Lenses are usable for round devices in raised and flush mounting

	Lens	Symbol	Typ-Nr.	kg
Lens round, flush, plastic	black opaque	without	**704.602.0**	0.001
	blue transparent	without	**704.602.6**	0.001
	colourless transparent	Halo	**704.602.7A01**	0.001
		without	**704.602.7**	0.001
	green transparent	without	**704.602.5**	0.001
	red transparent	without	**704.602.2**	0.001
	yellow transparent	without	**704.602.4**	0.001



Marking plate for Lens round, flush

	Marking plate	Typ-Nr.	kg
Marking plate for Lens round, flush Halo illumination	Plastic white translucent	**704.609.9A01**	0.001
LED	Plastic colourless transparent ribbed	**704.609.7**	0.001
LED and Filament lamp	Plastic white translucent	**704.609.9**	0.001
non-illuminative	Plastic black opaque	**704.609.0**	0.001



Downloaded from DatasheetLib.com - datasheet search engine

Lens round raised, plastic



	Lens	Typ-Nr.	kg
Lens round raised, plastic	colourless transparent	**704.611.7**	0.002
	green transparent	**704.611.5**	0.002
	red transparent	**704.611.2**	0.002
	yellow transparent	**704.611.4**	0.002

Marking cap for Lens round, raised



	Marking cap	Typ-Nr.	kg
Marking cap for Lens round, raised LED	Plastic colourless transparent ribbed	**704.610.7**	0.001
LED and Filament lamp	Plastic white translucent	**704.610.9**	0.001

Front bezel set for Indicator and Pushbutton, flush mounting



	Front bezel	Ø 35 mm Typ-Nr.	Mounting dimensions	kg
Front bezel set for Indicator and Pushbutton, flush mounting	Aluminium black	**704.955.0**	7	0.015
	Aluminium natural	**704.955.1**	7	0.015
	Stainless steel natural	**704.955.9**	7	0.033

Mounting dimensions from page 91

Front bezel with protective membrane, flush mounting

for Pushbutton and Illuminated pushbutton (IP 67)



	Front bezel	Ø 35 mm Typ-Nr.	kg
Front bezel with protective membrane, flush mounting with transparent silicone membrane	Aluminium black	**704.955.4**	0.015
	Aluminium natural	**704.955.3**	0.015
with transparent silicone membrane, resistant to sea water	Stainless steel natural	**704.955.9E**	0.033

Front bezel to be mounted with a torque of 40 Ncm onto actuator.

Downloaded from DatasheetLib.com - datasheet search engine

Front ring

	Front ring	Ø 29 mm Typ-Nr.	kg
Front ring	Aluminium black	**704.600.1A**	0.005
	Aluminium natural	**704.600.1**	0.005
	Plastic black	**704.600.0**	0.003
	Plastic light-grey	**704.600.6**	0.003
	Stainless steel natural	**704.600.9**	0.006
Heigth 16 mm	Plastic light-grey	**704.600.7**	0.003



Front protective cap

for Indicator, Pushbutton and Illuminated pushbutton for protection IP 68

	Front protective cap	Typ-Nr.	kg
Front protective cap only together with Lenses 704.602.X, 704.601.X and Front rings 704.600.X	Silicone colourless transparent	**704.953.0**	0.002



Front protective ring

for Pushbutton and Illuminated pushbutton with front illumination (IP 67)

	Front protective ring	Ø 29 mm Typ-Nr.	kg
Front protective ring with transparent Pebax membrane, temperature resistance -40 °C ... +85 °C	Aluminium natural	**704.600.5/A**	0.005
with transparent silicone membrane (extent resistant to sea water), temperature resistance -40 °C ... +85 °C	Aluminium natural	**704.600.3**	0.005
	Chromed brass	**704.600.2**	0.005



Front protective ring to be mounted with a torque of 40 Ncm onto actuator.

Bayonet flange

	Typ-Nr.	Technical drawing	kg
Bayonet flange Metal	**704.960.5**	48	0.025
Plastic	**704.950.5**	47	0.015



Technical drawing from page 95

Downloaded from DatasheetLib.com - datasheet search engine

Lamp block

	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp block Spring terminal	PIT	**704.950.3**	42	5	0.014
Standard	PT 6.3	**704.950.1**	40	5	0.012
	ST	**704.950.0**	39	5	0.012
Terminals Cu/Sn nickel plated	D-PT 6.3	**704.950.2/D**	41	5	0.013
Terminals Cu/Sn nickel plated and blank	D-PT 6.3	**704.950.1/D**	41	5	0.013
Terminals for ring cable shoe	ST	**704.950.0B**	39	5	0.013



Terminals: PIT = PIT Spring terminal, PT 6.3 = Plug-in terminal 6.3 mm, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm
Technical drawing from page 95, Circuit drawing from page 115

Indicator and Flasher square, front illumination

Indicator actuator square, front illumination

	Front bezel	Housing	⍁ 35 x 35 mm Typ-Nr.	⍁ 30 x 30 mm Typ-Nr.	kg
Indicator actuator square, front illumination	black	Plastic black	**704.743.0**		0.020
	silver	Plastic black	**704.743.8**		0.020
	without	Plastic black		**704.733.0**	0.020
		Plastic grey		**704.733.1**	0.020



Lens square, plastic

	Lens	⍁ 35 x 35 mm Typ-Nr.	⍁ 30 x 30 mm Typ-Nr.	kg
Lens square, plastic	blue transparent	**704.702.6**	**704.702.6**	0.001
	colourless transparent	**704.702.7**	**704.702.7**	0.001
	green transparent	**704.702.5**	**704.702.5**	0.001
	red transparent	**704.702.2**	**704.702.2**	0.001
	yellow transparent	**704.702.4**	**704.702.4**	0.001



Lens holder for Lens square

	Lens holder	Typ-Nr.	kg
Lens holder for Lens square can be marked	translucent white	**704.709.9**	0.003
LED	transparent colourless	**704.709.7**	0.003



Downloaded from DatasheetLib.com - datasheet search engine

Marking foil for Lens square

	Marking foil	Typ-Nr.	kg
Marking foil for Lens square can be hot stamped	Plastic colourless transparent	**704.707.7**	0.001



Front bezel square

	Front bezel	⍁ 30 x 30 mm Typ-Nr.	kg
Front bezel square	Plastic black	**704.701.0**	0.002
	Plastic chromium-plated	**704.701.4**	0.002
	Plastic grey	**704.701.6**	0.002



Bayonet flange

	Typ-Nr.	Technical drawing	kg
Bayonet flange Metal	**704.960.5**	48	0.025
Plastic	**704.950.5**	47	0.015



Technical drawing from page 95

Lamp block

	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp block Spring terminal	PIT	**704.950.3**	42	5	0.014
Standard	PT 6.3	**704.950.1**	40	5	0.012
	ST	**704.950.0**	39	5	0.012
Terminals Cu/Sn nickel plated	D-PT 6.3	**704.950.2/D**	41	5	0.013
Terminals Cu/Sn nickel plated and blank	D-PT 6.3	**704.950.1/D**	41	5	0.013
Terminals for ring cable shoe	ST	**704.950.0B**	39	5	0.013

Terminals: PIT = PIT Spring terminal, PT 6.3 = Plug-in terminal 6.3 mm, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm

Technical drawing from page 95, Circuit drawing from page 115



Downloaded from DatasheetLib.com - datasheet search engine

Pushbutton and Illuminated pushbutton round

Pushbutton- and Illuminated pushbutton actuator round

Actuators usable for devices with front dimension 29 mm dia., raised mounting and 35 mm dia., flush mounting



	Switching action	Housing	Typ-Nr.	kg
Pushbutton- and Illuminated pushbutton actuator round	MA	Plastic grey	**704.632.1**	0.009
	M	Plastic grey	**704.631.1**	0.009

Switching action: MA = Maintained action, M = Momentary action

Lens round, flush, plastic

Lenses are usable for round devices in raised and flush mounting



	Lens	Symbol	Typ-Nr.	kg
Lens round, flush, plastic	black opaque	without	**704.602.0**	0.001
	blue transparent	without	**704.602.6**	0.001
	colourless transparent	Halo	**704.602.7A01**	0.001
		without	**704.602.7**	0.001
	green transparent	without	**704.602.5**	0.001
	red transparent	without	**704.602.2**	0.001
	yellow transparent	without	**704.602.4**	0.001

Marking plate for Lens round, flush



	Marking plate	Typ-Nr.	kg
Marking plate for Lens round, flush Halo illumination	Plastic white translucent	**704.609.9A01**	0.001
LED	Plastic colourless transparent ribbed	**704.609.7**	0.001
LED and Filament lamp	Plastic white translucent	**704.609.9**	0.001
non-illuminative	Plastic black opaque	**704.609.0**	0.001

Lens round, metal



	Lens	Ø 29 mm Typ-Nr.	kg
Lens round, metal	Aluminium black	**704.601.0**	0.001
	Aluminium blue	**704.601.6**	0.001
	Aluminium gold	**704.601.4**	0.001
	Aluminium natural	**704.601.8**	0.001
	Aluminium olive-green	**704.601.5**	0.001
	Aluminium red	**704.601.2**	0.001
	Stainless steel natural	**704.601.9**	0.001

Downloaded from DatasheetLib.com - datasheet search engine

Lens round, metal with spot



	Lens	Ø 29 mm Typ-Nr.	kg
Lens round, metal with spot	Aluminium black	**704.601.01**	0.001
	Aluminium blue	**704.601.61**	0.001
	Aluminium gold	**704.601.41**	0.001
	Aluminium natural	**704.601.81**	0.001
	Aluminium olive-green	**704.601.51**	0.001
	Aluminium red	**704.601.21**	0.001
	Stainless steel natural	**704.601.91**	0.001

Front bezel set for Indicator and Pushbutton, flush mounting



	Front bezel	Ø 35 mm Typ-Nr.	Mounting dimensions	kg
Front bezel set for Indicator and Pushbutton, flush mounting	Aluminium black	**704.955.0**	7	0.015
	Aluminium natural	**704.955.1**	7	0.015
	Stainless steel natural	**704.955.9**	7	0.033

Mounting dimensions from page 91

Front bezel with protective membrane, flush mounting

for Pushbutton and Illuminated pushbutton (IP 67)



	Front bezel	Ø 35 mm Typ-Nr.	kg
Front bezel with protective membrane, flush mounting with transparent silicone membrane	Aluminium black	**704.955.4**	0.015
	Aluminium natural	**704.955.3**	0.015
with transparent silicone membrane, resistant to sea water	Stainless steel natural	**704.955.9E**	0.033

Front bezel to be mounted with a torque of 40 Ncm onto actuator.

Front ring



	Front ring	Ø 29 mm Typ-Nr.	kg
Front ring	Aluminium black	**704.600.1A**	0.005
	Aluminium natural	**704.600.1**	0.005
	Plastic black	**704.600.0**	0.003
	Plastic light-grey	**704.600.6**	0.003
	Stainless steel natural	**704.600.9**	0.006
Heigth 16 mm	Plastic light-grey	**704.600.7**	0.003

Downloaded from DatasheetLib.com - datasheet search engine

Front protective cap

for Indicator, Pushbutton and Illuminated pushbutton for protection IP 68



	Front protective cap	Typ-Nr.	kg
Front protective cap only together with Lenses 704.602.X, 704.601.X and Front rings 704.600.X	Silicone colourless transparent	**704.953.0**	0.002

Front protective ring

for Pushbutton and Illuminated pushbutton with front illumination (IP 67)



	Front protective ring	Ø 29 mm Typ-Nr.	kg
Front protective ring with transparent Pebax membrane, temperature resistance -40 °C ... +85 °C	Aluminium natural	**704.600.5/A**	0.005
with transparent silicone membrane (extent resistant to sea water), temperature resistance -40 °C ... +85 °C	Aluminium natural	**704.600.3**	0.005
	Chromed brass	**704.600.2**	0.005

Front protective ring to be mounted with a torque of 40 Ncm onto actuator.

Bayonet flange



	Typ-Nr.	Technical drawing	kg
Bayonet flange Metal	**704.960.5**	48	0.025
Plastic	**704.950.5**	47	0.015

Technical drawing from page 95

Lamp block



	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp block Spring terminal	PIT	**704.950.3**	42	5	0.014
Standard	PT 6.3	**704.950.1**	40	5	0.012
	ST	**704.950.0**	39	5	0.012
Terminals Cu/Sn nickel plated	D-PT 6.3	**704.950.2/D**	41	5	0.013
Terminals Cu/Sn nickel plated and blank	D-PT 6.3	**704.950.1/D**	41	5	0.013
Terminals for ring cable shoe	ST	**704.950.0B**	39	5	0.013

Terminals: PIT = PIT Spring terminal, PT 6.3 = Plug-in terminal 6.3 mm, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm

Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Pushbutton and Illuminated pushbutton square

Pushbutton- and Illuminated pushbutton actuator square



	Switching action	Front bezel	Housing	⍞ 35 x 35 mm Typ-Nr.	⍞ 30 x 30 mm Typ-Nr.	kg
Pushbutton- and Illuminated pushbutton actuator square	MA	black	Plastic black	**704.742.0**		0.020
		silver	Plastic black	**704.742.8**		0.020
	M	black	Plastic black	**704.741.0**		0.020
		silver	Plastic black	**704.741.8**		0.020
	MA	without	Plastic black		**704.732.0**	0.020
			Plastic grey		**704.732.1**	0.020
	M	without	Plastic black		**704.731.0**	0.020
			Plastic grey		**704.731.1**	0.020

Switching action: MA = Maintained action, M = Momentary action

Lens square, plastic



	Lens	Typ-Nr.	kg
Lens square, plastic	black opaque	**704.702.0**	0.001
	blue transparent	**704.702.6**	0.001
	colourless transparent	**704.702.7**	0.001
	green transparent	**704.702.5**	0.001
	red transparent	**704.702.2**	0.001
	white opaque	**704.702.9**	0.001
	yellow transparent	**704.702.4**	0.001

Lenses are usable for square devices in raised and flush mounting

Lens holder for Lens square



	Lens holder	Typ-Nr.	kg
Lens holder for Lens square can be marked	translucent white	**704.709.9**	0.003
LED	transparent colourless	**704.709.7**	0.003

Marking foil for Lens square



	Marking foil	Typ-Nr.	kg
Marking foil for Lens square can be hot stamped	Plastic colourless transparent	**704.707.7**	0.001

Downloaded from DatasheetLib.com - datasheet search engine

Front bezel square

	Front bezel	⏍ 30 x 30 mm Typ-Nr.	kg
Front bezel square	Plastic black	**704.701.0**	0.002
	Plastic chromium-plated	**704.701.4**	0.002
	Plastic grey	**704.701.6**	0.002



Bayonet flange

	Typ-Nr.	Technical drawing	kg
Bayonet flange Metal	**704.960.5**	48	0.025
Plastic	**704.950.5**	47	0.015



Technical drawing from page 95

Lamp block

	Terminals	Typ-Nr.	Technical drawing	Circuit drawing	kg
Lamp block Spring terminal	PIT	**704.950.3**	42	5	0.014
Standard	PT 6.3	**704.950.1**	40	5	0.012
	ST	**704.950.0**	39	5	0.012
Terminals Cu/Sn nickel plated	D-PT 6.3	**704.950.2/D**	41	5	0.013
Terminals Cu/Sn nickel plated and blank	D-PT 6.3	**704.950.1/D**	41	5	0.013
Terminals for ring cable shoe	ST	**704.950.0B**	39	5	0.013



Terminals: PIT = PIT Spring terminal, PT 6.3 = Plug-in terminal 6.3 mm, ST = Screw terminal, D-PT 6.3 = Double plug-in terminal 6.3 mm

Technical drawing from page 95, Circuit drawing from page 115

Downloaded from DatasheetLib.com - datasheet search engine

Snap-action switching element

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.
Up to three switching elements can be snapped to each actuator. Snap-action switching elements are not permissible for emergency-stop pushbuttons!

Material

Material of contact
Hardsilver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
Screw terminals
Plug-in terminals 6.3 x 0.8 mm
max. wire cross-section 2 x 2.5 mm²
max. wire cross-section of stranded cable 2 x 1.5 mm²
For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting dimensions)

Tightening torque
Screws at the mounting flange max. 25 Ncm
Screws at switching element max. 50 Ncm

Actuating force
1 Normally closed 1.9 N
1 Normally open 2 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤3 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million	Cycles of operation
Pushbutton momentary action	3 million	Cycles of operation
Selector switch maintained action	1.25 million	Cycles of operation
Selector switch momentary action	2.5 million	Cycles of operation
Keylock switch maintained action	25 000	Cycles of operation
Keylock switch momentary action	50 000	Cycles of operation

Electrical characteristics

Standards
The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1

Rated Insulation Voltage U_i
500 VAC / 600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-2-10

Electrical life
50 000 cycles of operations

Conventional free air thermal current I_{th}
10 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver, silver-palladium and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosϕ 0.3)

Voltage	230 VAC	400 VAC	500 VAC
Current	6 A	4 A	2.5 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	60 VDC	110 VDC
Current	10 A	3 A	1 A

Recommended minimum operational data
Gold-silver contacts:

Voltage	5 VDC	24 VDC	110 VDC
Current	15 mA	5 mA	2 mA

Hardsilver contacts:

Voltage	24 VDC	110 VDC
Current	50 mA	10 mA

Protection class
Indicators and switches, fit for mounting into devices with protection class II

Environmental conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C

Protection degree
IP 20

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s²puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz ... 500 Hz, amplitude 0,75 mm, as per EN IEC 60068-2-6

Approvals

Approbations
CB (IEC 60947)
CCC
CSA
Germanischer Lloyd
GOST
NFF 16-102
SEV
UL

Downloaded from DatasheetLib.com - datasheet search engine

Declaration of conformity
CE

Slow-make switching element

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.
Slow-make contacts with forced action are ideal for high switch ratings.
Up to three switching elements can be snapped to each actuator.
For the emergency-stop pushbutton use the slow-make switching element (max. 2).

Material

Material of contact
Hardsilver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
Screw terminals
Plug-in terminals 6.3 x 0.8 mm
max. wire cross-section 2 x 2.5 mm²
max. wire cross-section of stranded cable 2 x 1.5 mm²
For switches with plug-in terminals it is necessary to provide insulation sleeves and to maintain a spacing of 65 mm between rows (mounting dimensions)

Tightening torque
Screws at the mounting flange max. 25 Ncm
Screws at switching element max. 50 Ncm

Actuating force
1 Normally closed 2 N
1 Normally open 3.1 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤1 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million	Cycles of operation
Pushbutton momentary action	3 million	Cycles of operation
Selector switch maintained action	1.25 million	Cycles of operation
Selector switch momentary action	2.5 million	Cycles of operation
Emergency-stop switch	50 000	Cycles of operation
Keylock switch maintained action	25 000	Cycles of operation
Keylock switch momentary action	50 000	Cycles of operation

Electrical characteristics

Standards
The switches comply with the "Standards for low-voltage switching devices" EN IEC 60947-5-1

Rated Insulation Voltage U_i
500 VAC / 600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-2-10

Electrical life
50 000 cycles of operations

Conventional free air thermal current I_{th}
10 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver, silver-palladium and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosϕ 0.3)

Voltage	230 VAC	400 VAC	500 VAC
Current	7 A	5 A	4 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	60 VDC	110 VDC	250 VDC
Current	10 A	5 A	2.5 A	0.6 A

Recommended minimum operational data
Gold-silver contacts:

Voltage	24 VDC	110 VDC
Current	10 mA	2 mA

Hardsilver contacts:

Voltage	24 VDC	110 VDC
Current	50 mA	10 mA

Protection class
Indicators and switches, fit for mounting into devices with protection class II

Environmental conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C

Protection degree
IP 20

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s²puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz ... 500 Hz, amplitude 0,75 mm, as per EN IEC 60068-2-6

Approvals

Approbations
CB (IEC 60947)
CCC
CSA
Germanischer Lloyd
GOST
NFF 16-102

Downloaded from DatasheetLib.com - datasheet search engine

SEV
UL

Declaration of conformity
CE

Snap-action switching element PIT

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.
Up to three switching elements can be snapped to each actuator. Snap-action switching elements are not permissible for emergency-stop pushbuttons!

Material

Material of contact
Hardsilver and gold-silver

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
PIT Spring terminal
Skinning 8 mm
Wire cross-section:
Wire 0.2 to 1.0 mm²Stranded wire 0.2 to 1.0 mm² without core and sleeve
Stranded wire 0.2 to 0.75 mm² with core and sleeve

Tightening torque
Screws at the mounting flange max. 25 Ncm

Actuating force
1 Normally closed 1.9 N
1 Normally open 2 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤3 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million	Cycles of operation
Pushbutton momentary action	3 million	Cycles of operation
Selector switch maintained action	1.25 million	Cycles of operation
Selector switch momentary action	2.5 million	Cycles of operation
Emergency-stop switch	50 000	Cycles of operation
Keylock switch maintained action	25 000	Cycles of operation
Keylock switch momentary action	50 000	Cycles of operation

Electrical characteristics

Standards
The switches comply with EN IEC 60947-1 / EN IEC 60947-5-1

Rated Insulation Voltage U_i
500 VAC / 600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-2-10

Electrical life
50 000 cycles of operations

Conventional free air thermal current I_{th}
6 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosϕ 0.3)

Voltage	250 VAC
Current	6 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	110 VDC
Current	6 A	1.0 A

Recommended minimum operational data
Gold-silver contacts:

Voltage	24 VDC
Current	5 mA

Hardsilver contacts:

Voltage	24 VDC
Current	50 mA

Protection class
Indicators and switches, fit for mounting into devices with protection class II

Environmental conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C

Protection degree
IP 20

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s²puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz ... 500 Hz, as per EN IEC 60068-2-6 and EN 61373 Increased broad band noise, class 1B

Approvals

Approbations
CB (IEC 60947)
CCC
CSA
Germanischer Lloyd
GOST
NFF 16-102

Declaration of conformity
CE

Downloaded from DatasheetLib.com - datasheet search engine

Slow-make switching element PIT

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.
Slow-make contacts with forced action are ideal for high switch ratings.
Up to three switching elements can be snapped to each actuator. For the emergency-stop pushbutton use the slow-make switching element (max. 2).

Material

Material of contact
Hardsilver and gold-silver

Switch housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
PIT Spring terminal
Skinning 8 mm
Wire cross-section:
Wire 0.2 to 1.0 mm²Stranded wire 0.2 to 1.0 mm² without core and sleeve
Stranded wire 0.2 to 0.75 mm² with core and sleeve

Tightening torque
Screws at the mounting flange max. 25 Ncm

Actuating force
1 Normally closed 2 N
1 Normally open 3.1 N

Actuating travel
5.8 mm ± 0.2 mm

Rebound time
≤1 ms

Mechanical lifetime
(with 1 switching element)

Pushbutton maintained action	1.5 million	Cycles of operation
Pushbutton momentary action	3 million	Cycles of operation
Selector switch maintained action	1.25 million	Cycles of operation
Selector switch momentary action	2.5 million	Cycles of operation
Emergency-stop switch	50 000	Cycles of operation
Keylock switch maintained action	25 000	Cycles of operation
Keylock switch momentary action	50 000	Cycles of operation

Electrical characteristics

Standards
The switches comply with EN IEC 60947-1 / EN IEC 60947-5-1

Rated Insulation Voltage U_i
500 VAC / 600 VDC, as per EN IEC 60947-5-1

Contact resistance
New state ≤50 mΩ as per DIN IEC 60512-2-4

Isolation resistance
≥10 MΩ between open contacts at 500 VDC, as per DIN IEC 60512-2-10

Electrical life
50 000 cycles of operations

Conventional free air thermal current I_{th}
6 A, as per EN IEC 60947-5-1
the maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

Switch rating
At switch rating AC for gold-silver and hardsilver contacts, service category AC-15, as per EN IEC 60947-5-1 (cosϕ 0.3)

Voltage	250 VAC
Current	6 A

At switch rating DC for gold-silver and hardsilver contacts, service category DC-13, as per EN IEC 60947-5-1

Voltage	24 VDC	110 VDC
Current	6 A	1.0 A

Recommended minimum operational data
Gold-silver contacts:

Voltage	24 VDC
Current	5 mA

Hardsilver contacts:

Voltage	24 VDC
Current	50 mA

Protection class
Indicators and switches, fit for mounting into devices with protection class II

Approvals

Approbations
CB (IEC 60947)
CCC
CSA
Germanischer Lloyd
GOST
NFF 16-102

Declaration of conformity
CE

Lamp block PIT

Material

Housing
Polycarbonate (PC)

Mechanical characteristics

Terminals
PIT Spring terminal
Skinning 8 mm
Wire cross-section:
Wire 0.2 to 1.0 mm²Stranded wire 0.2 to 1.0 mm² without core and sleeve
Stranded wire 0.2 to 0.75 mm² with core and sleeve

Electrical characteristics

Standards
The switches comply with EN IEC 60947-1 / EN IEC 60947-5-1

Downloaded from DatasheetLib.com - datasheet search engine

Illumination
Voltage 250 V max.
Power 2.6 W max.
BA9s standard adaptable.

Environmental conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C

Protection degree
IP 20

Shock resistance
(single impacts, semi-sinusoidal)
300 m/s²puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance
(sinusoidal)
100 m/s² at 10 Hz ... 500 Hz, as per EN IEC 60068-2-6 and EN 61373 Increased broad band noise, class 1B

Buzzer

Buzzer system

System
Piezo disc

Material

Alarm buzzer case
Polyamide

Front cap
Plastic Polyamide
Metal Nickel-plated brass (sea-water proof)

Mechanical characteristics

Terminals
Plug-in terminal 2.8 x 0.5 mm

Electrical characteristics

Frequency (tone)
approx. 2.8 kHz continuous tone only

Sound pressure
95 db (A) ±8 dB at a distance of 0.1 m

Operation Voltage/Current

Operation Voltage	24 VDC ±10 %
Operation Current	≤25 mA

Environmental conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-25 °C ... +55 °C

Protection degree
as per EN IEC 60529, frontside
IP 40, devices flush mounting
IP 65, devices raised mounting

Approvals

Declaration of conformity
CE

Actuator

Material

Front ring
Polyamide, Aluminium or Stainless steel

Mounting flange
Polyethylene terephtalate

Actuator housing
Polycarbonate, Polyamide

Mechanical characteristics

Actuating force
Mounting style square flush 6.2 N
other Mounting styles 8 N

Actuating travel
5.8 mm ± 0.2 mm

Mechanical lifetime
(with 1 switching element)

Pushbutton	≤3 million	Cycles of operation
Selector switch	≤2.5 million	Cycles of operation
Stop switch	≤50 000	Cycles of operation
Fool proofed E-stop	≥6050	Cycles of operation
Keylock switch	≤50 000	Cycles of operation
Key insert switches	≤250 000	Cycles of operation

Electrical characteristics

Standards
The switches comply with the "Rules for low-voltage switching devices" EN IEC 60947-5-1

Environmental conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-25 °C ... +55 °C
-40 °C ... +55 °C (Key insert switch)

Protection degree
as per EN IEC 60529
frontside IP 65 (IP 67 Key insert switch)

Rotary selector switch element

Mechanical characteristics

Terminals
Screw terminals
Terminal lead material copper wires only
max. permissible wire gage :
Single-core or stranded wire 2 x 1.5 mm² (2 x AWG 14)
flexible wire 2 x 1,5 mm² (2 x AWG 16)

Downloaded from DatasheetLib.com - datasheet search engine

Number of stages
1 to 8 positions max.

Number of contacts
1 to 16 max. normally open contacts
(contact positioning according circuit drawing)

Switching angle
Basic position of switching position "a" is 9 o'clock

Maintained action	Switching angle
12 max.	30 °
8 max.	45 °
6 max.	60 °
4 max.	90 °

Momentary action with release 24 °
(provide at the beginning or at the end)

Standard type of Kraus & Naimer
CG4 Hard Silver contacts with 1 µm Gold layer
CG4-1 Hard Silver contacts with 35 µm Gold layer

Electrical characteristics

Minimum Voltage
20 V

Rated Impulse Withstand Voltage U_{imp}
4 kV

Short Circuit Protection
Max. fuse size (gL- characteristic) 10 A
Rated short-time withstand current (1s-current) 90 A

Electrical characteristics for AC

Standards
The devices comply with : EN IEC 60947-3, VDE 0660 part 107

Rated Operational Voltage U_e
440 V

Rated Insulation Voltage U_i
440 V

Rated Thermal Current I_u/I_{th}
10 A

Rated Operational Current I_e
AC-15 Switching of control devices, contactors, valves etc.

110 V - 120 V	2.5 A
220 V - 240 V	2.5 A
380 V - 440 V	1.5 A

No load operation
10 A

AC-21A Switching of resistive loads, including moderate overloads
For switchin of power >1 kW
10 A

AC-22A Switching of combined resistive or low inductive loads including moderate overloads

220 V - 240 V	10 A

Rated Utilization Category
AC-2 Slip ring motor starting, reversing and plugging, star-delta starting 3 phase, 3 pole

220 V - 240 V	2.5 kW	
380 V - 440 V	4.5 kW	

AC-3 Direct-on-line starting, star-delta starting

3 phase, 3 pole	220 V - 240 V	2.5 kW
	380 V - 440 V	2.2 kW
1 phase, 2 pole	110 V - 120 V	0.3 kW
	220 V - 240 V	0.55 kW
	380 V - 440 V	0.75 kW

AC-Direct-on-line starting, reversing, plugging and inching

3 phase, 3 pole	220 V - 240 V	0.37 kW
	380 V - 440 V	0.55 kW
1 phase, 2 pole	110 V - 120 V	0.15 kW
	220 V - 240 V	0.25 kW
	380 V - 440 V	0.5 kW

AC-23A Frequent switching of motors or other high inductive loads

3 phase, 3 pole	220 V - 240 V	1.8 kW
	380 V - 440 V	3 kW
1 phase, 2 pole	110 V - 120 V	0.37 kW
	220 V - 240 V	0.75 kW
	380 V - 440 V	1.1 kW

Overvoltage category
III, valid for lines with grounded common neutral termination

Degree of pollution
3, valid for lines with grounded common neutral termination

Electrical characteristics for AC (UL/Canada)

Rated operational voltage
300 V

Rated Insulation Voltage U_i
300 V

Rated Thermal Current
10 A

Ampere Rating
Resisitve or low inductive loads, for switching of power >1 kW, 10 A

Ratings
Standard motor load, DOL Rating (similar AC-3)

3 phase, 3 pole	110 V - 120 V	0.75 HP
	220 V - 240 V	1 HP
1 phase, 2 pole	110 V - 120 V	0.33 HP
	220 V - 240 V	0.75 HP
	277 V - 277 V	0.75 HP

Pilot Duty, Heavy
300 VAC

Electrical characteristics for DC

Switch Rating DC
Resistive loads T ≤1 ms

Number of series contact(s)							Switch
1	2	3	4	5	6	8	Capacity
24 V	48 V	70 V	95 V	120 V	145 V	190 V	10 A

Downloaded from DatasheetLib.com - datasheet search engine

48 V	95 V	140 V	190 V	240 V	290 V	350 V	6 A
60 V	120 V	180 V	240 V	300 V	360 V	450 V	2.5 A
110 V	220 V	330 V	440 V	550 V	660 V		0.7 A
220 V	440 V	660 V					0.3 A
440 V	660 V						0.2 A

Inductive loads T = 50 ms

Number of series contact(s)							Switch
1	2	3	4	5	6	8	Capacity
24 V	48 V	70 V	95 V	120 V	145 V	190 V	6 A
30 V	60 V	90 V	120 V	150 V	180 V	240 V	3 A
48 V	95 V	140 V	190 V	240 V	290 V	350 V	1 A
60 V	120 V	180 V	240 V	300 V	360 V	450 V	0.7 A
110 V	220 V	330 V	440 V	550 V	660 V		0.3 A

Environmental conditions

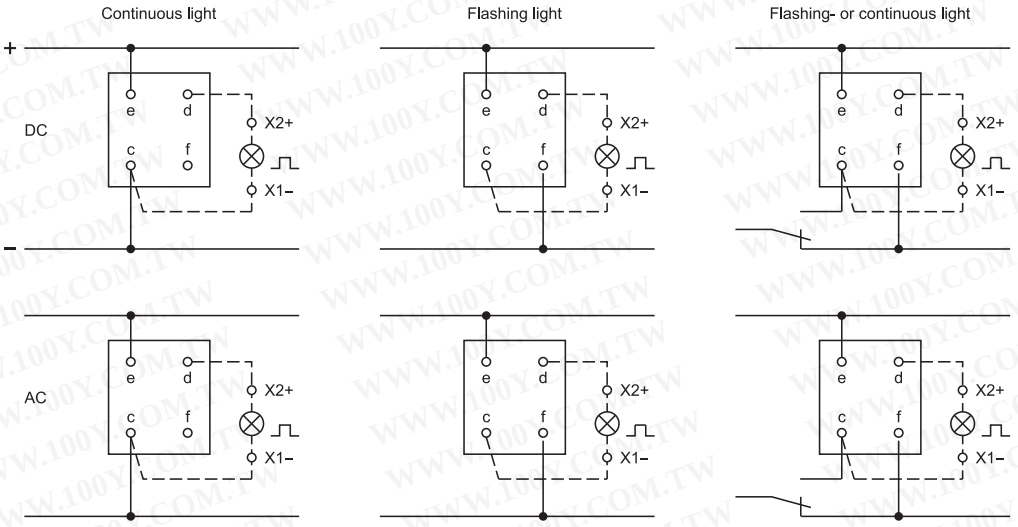
Operating temperature
Ambient Temperatures of Stages

open at 100 % I_u/I_{th}	55 °C during 24 h with peaks up to 60 °C
enclosed at 100 % I_{the}	35 °C during 24 h with peaks up to 40 °C

Downloaded from DatasheetLib.com - datasheet search engine

Flasher element

Do not connect terminal c and f simultaneously when powered up.



Downloaded from DatasheetLib.com - datasheet search engine

Suppressor circuits

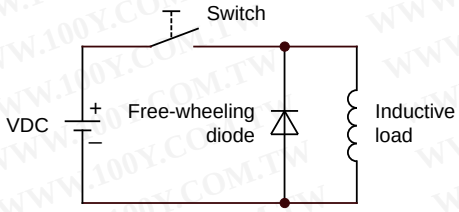
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric break-down voltages of the circuit or parasitic elements of the coil. This voltage can be kilovolts in amplitude even when nominal circuit voltages are low (e.g. 12 VDC) see Fig. 2.

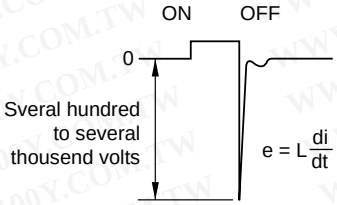
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current flowing through the load.

To get an efficient protection, the free-wheeling diode must be connected as close as possible to the inductive load!

Switching with inductive load
Fig. 1



Counter emf
over load without free-wheeling diode
Fig. 2



Downloaded from DatasheetLib.com - datasheet search engine

General notes

1. Engraving
In addition to the most commonly used world languages, in DIN 1451-3 close spacing, other typefaces are available as Scandinavian, Slavic, Greek, Russian and Polish.
The lenses are filled with black or white colour.
Standard height of letters is 3 mm. If the height is not specified, we will supply 3 mm engraved letters.

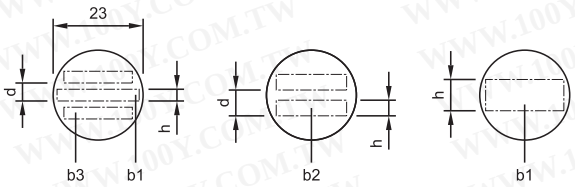
2. Hot stamping
Standard legends and ISO symbols are hot stamped. For larger series it is worth considering markings by means of hot stamping. We will pleased to advise you.

3. Film inserts
Instead of using engraving the square lenses can be fitted with film inserts, as an alternative.
Film thickness is 0.25 mm.
Max. film size :
for Indicator 24.5 mm x 24.5 mm
for illuminated Pushbutton 21.5 x 21.5 mm.

Engraving marking cap for Indicator round, full face illumination

All dimensions in mm

Height of letters	Number of lines	Number of (target value) letters per line			Line spacing
h		b1	b2	b3	d
3	3	11	10	9	4.6
4	2	8	7	-	6.6
8	1	4	-	-	-

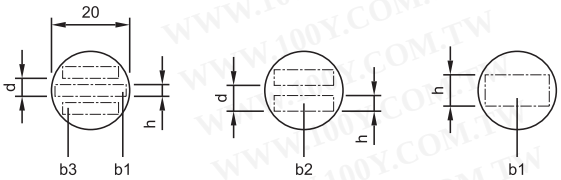


The gap between 2 words results in each case a letter less.

Engraving marking cap for Indicator and illuminated Pushbutton round, front illumination

All dimensions in mm

Height of letters	Number of lines	Number of (target value) letters per line			Line spacing
h		b1	b2	b3	d
3	3	9	9	7	4.6
4	2	7	6	-	6.6
8	1	3	-	-	-



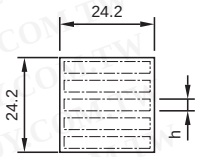
The gap between 2 words results in each case a letter less.

Downloaded from DatasheetLib.com - datasheet search engine

Engraving diffusor cap for Indicator square, full face illumination

All dimensions in mm

Height of letters h	Number of lines	Number of (target value) capital letters per line	Number of (target value) small letters per line
2.5	6	13	14
3.0	5	11	12
4.0	4	8	8 - 9
5.0	3	6 - 7	7
6.0	2	5 - 6	6
8.0	1	4	4 - 5

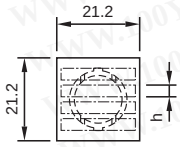


The gap between 2 words results in each case a letter less.

Engraving lens holder for Indicator and Illuminate Pushbutton square, front illumination

All dimensions in mm

Height of letters h	Number of lines	Number of (target value) capital letters per line	Number of (target value) small letters per line
2.5	5	9	9 - 10
3.0	4	7 - 8	8
4.0	3	5 - 6	6
5.0	2	4 - 5	4 - 5
6.0	2	3 - 4	4
8.0	1	2 - 3	3



The gap between 2 words results in each case a letter less.

Important : Consider lens holder mounting orientation before specifying engraving charachters !

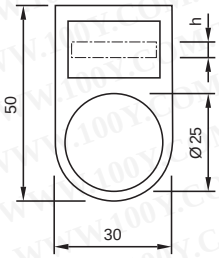
Downloaded from DatasheetLib.com - datasheet search engine

Engraving legend plates

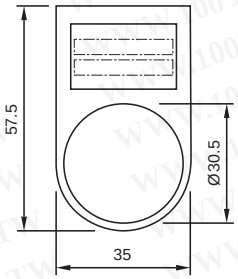
All dimensions in mm

Dimension	Devices mounting style	Height of letters h	Number of lines	Number of (target value) letters per line	Image
30 x 50	round, raised	3	2	12	B1
		4	1	7	B1
		8	1	4	B1
35 x 57.5	round, flush	3	2	12	B2
		4	1	7	B2
		8	1	4	B2
18 x 35	square, flush	3	3	16	B3
		4	2	10	B3
		8	1	6	B3

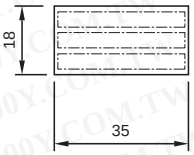
B1



B2



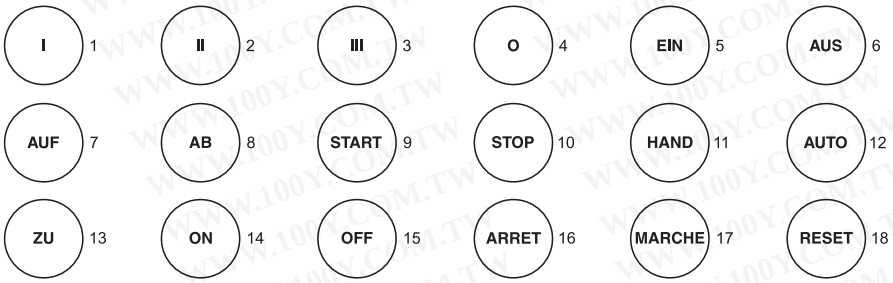
B3



The gap between 2 words results in each case a letter less.

Standard texts for marking plates and marking caps for Indicator and Illuminated Pushbutton

Height of letters 6 mm



Downloaded from DatasheetLib.com - datasheet search engine

Symbols for marking plates and marking caps for Indicator and Illuminated Pushbutton

	1 Direction of linear rectilinear motion (also for ⟷ ↕)		13 Direction of spindle rotation		29 Decrease of value (speed, for instance)		49 Cooling pump
	2 Linear motion in in 2 directions (also for ↕)		14 One revolution		30 Speed of planing cut		50 Lubricant pump
	3 Interrupted linear motion (also for ⟷ ↕)		15 Number of revolutions per minute (spindle speed)		31 Speed of turning cut		51 Hydraulic system pump
	4 Limited linear motion (also for ⟷ ↕)		16 Feed		32 Speed of drilling cut		52 Hydraulic motor
	5 Limited linear motion and return		17 Feed per revolution		33 Speed of milling cut (similar symbol fpr speed of grinding)		53 Tracer
	6 Oscillating linear motion (continuous)		18 Feed per minute		34 Conventional milling		61 Stepless regulation
	7 Direction of continuous rotation (right)		19 Reduced feed		35 Climb milling (down milling)		62 Adjustable
	7a Direction of continuous rotation (left)		20 Rapid feed		41 Electric motor		63.1 Lock or tighten
	8 Rotation in 2 directions		21 Normal feed		42 Rectangular work table or slide element		63.2 Lock or tighten
	9 Direction of interrupted rotation (right)		22 Direction of feed (orientation not specified)		43 Round work table or rotating element		64.1 Unlock, unclamp
	9a Direction of interrupted rotation (left)		24 Transverse feed		44 Turning spindle		64.2 Chuck open
	10 Limited rotation (right)		25 Vertical feed		45 Drilling spindle		65 Brake on
	10a Limited rotation (left)		26 Rapid traverse		46 Milling spindle		66 Brake off
	11 Limited rotation and return		27 Threading		47 Grinding spindle		67 Automatic (or semi-automatic) cycle
	12 Oscillating rotary movement (continuous)		28 Increase of value (speed, for instance)		48 Pump (general symbol)		68 Hand control

Continuation see next page

Downloaded from DatasheetLib.com - datasheet search engine

Continued from previous page


69 Start, on


70 Stop, off


71 Start and stop with same button


72 In action as long as button is operated


74 Engaging (mechanical start)


75 Disengaging (mechanical stop)


76 Close lock-nut


77 Open lock-nut


78 Engage sensor


79 Disengage sensor


80 Change speed only in stopped position


81 Change speed only in motion


91 Shear pin construction


92 Danger (high voltage)


93 Caution!


94 Main switch


101 Coolant fluid


102 Machine lighting


103 Weight


104 Filter opening


105 Overflow


106 Drain


107 Oil, lubricant

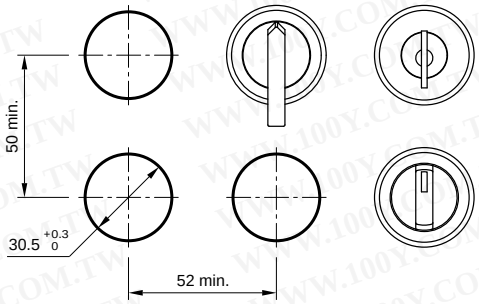

108 Blast


109 Suction

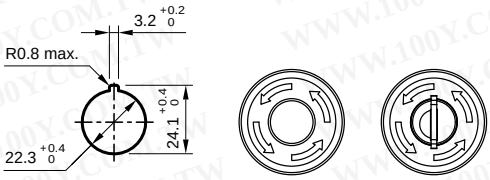
Downloaded from DatasheetLib.com - datasheet search engine

Mounting dimensions

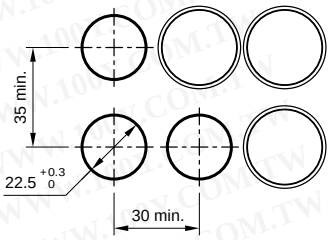
1 Rotary selector switch actuator, short lever, flush mounting page 44 **| Rotary selector switch actuator, long lever, flush mounting** page 44



2 Emergency-stop pushbutton actuator, foolproof EN IEC 60947-5-5 page 21

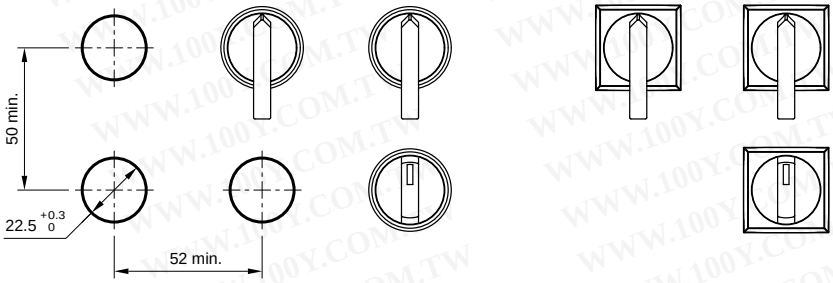


3 Indicator full-face illumination compact page 12



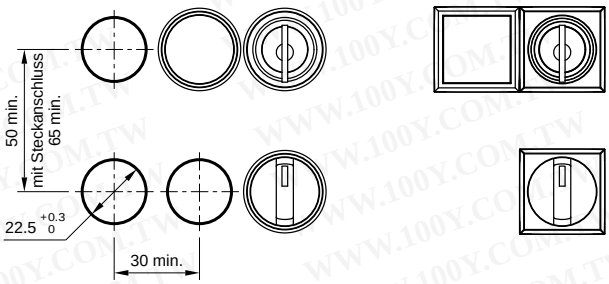
Hole spacing 31 mm min. by using blind plug 704.960.4

4 Rotary selector switch actuator, short lever page 31 **| Rotary selector switch actuator, long lever** page 31



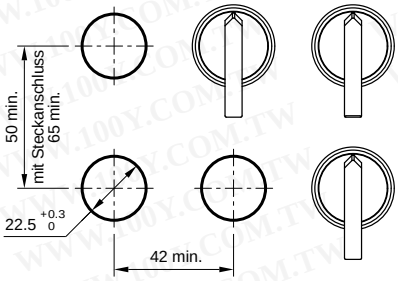
Downloaded from DatasheetLib.com - datasheet search engine

5 Indicator full face illumination page 13 **| Indicator front illumination** page 14 **| Flasher full face illumination** page 15 **| Flasher front illumination** page 16 **| Buzzer** page 17 **| Pushbutton actuator** page 18 **| Illuminated pushbutton actuator** page 20 **| Keylock switch actuator 2 positions** page 25 **| Keylock switch actuator 3 positions** page 26 **| Selector switch actuator 2 positions, short lever** page 27 **| Selector switch actuator 2 positions, short lever, 12 o'clock** page 27 **| Selector switch actuator 3 positions, short lever** page 29

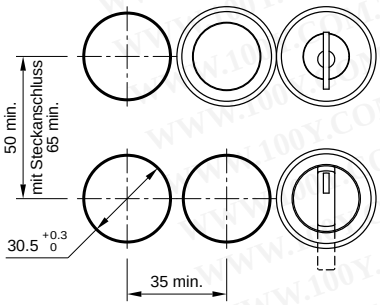


Hole spacing 31 mm min. by using blind plug 704.960.4

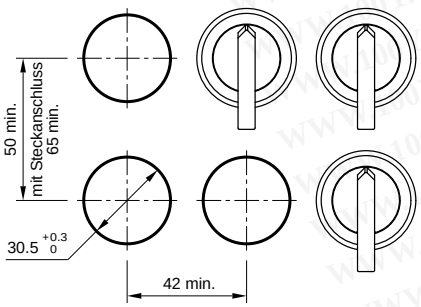
6 Selector switch actuator 2 positions, long lever page 28 **| Selector switch actuator 2 positions, long lever, 12 o'clock** page 28 **| Selector switch actuator 3 positions, long lever** page 30



7 Indicator, flush mounting page 32 **| Flasher, flush mounting** page 33 **| Buzzer, flush mounting** page 33 **| Pushbutton actuator, flush mounting** page 34 **| Illuminated pushbutton actuator, flush mounting** page 36 **| Keylock switch actuator 2 positions, flush mounting** page 38 **| Keylock switch actuator 3 positions, flush mounting** page 39 **| Selector switch actuator 2 positions, short lever, flush mounting** page 40 **| Selector switch actuator 2 positions, short lever, 12 o'clock, flush mounting** page 40 **| Selector switch actuator 2 positions, long lever, flush mounting** page 41 **| Selector switch actuator 2 positions, long lever, 12 o'clock, flush mounting** page 41 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42 **| Keylock rotary switch actuator, flush mounting** page 45 **| Front bezel set for Indicator and Pushbutton, flush mounting** page 68 **| Front bezel set for Indicator and Pushbutton, flush mounting** page 73

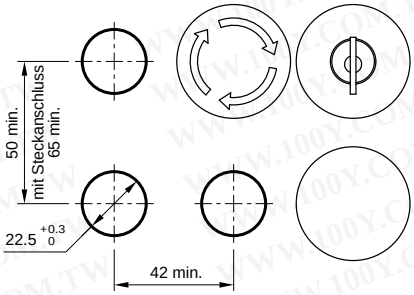


8 Selector switch actuator 3 positions, long lever, flush mounting page 43

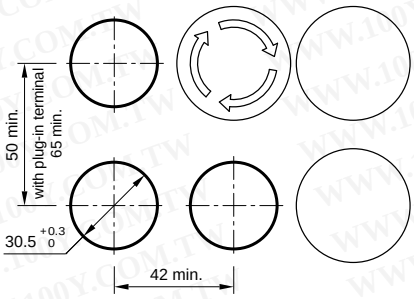


Downloaded from DatasheetLib.com - datasheet search engine

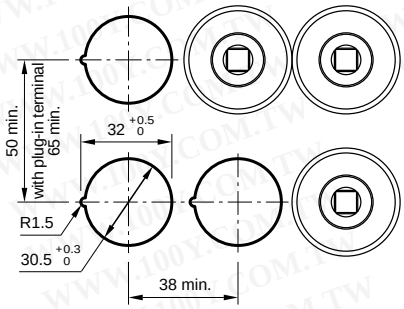
9 Stop pushbutton actuator page 22 **| Mushroom-head pushbutton actuator** page 23 **| Mushroom-head pushbutton actuator illuminated** page 24



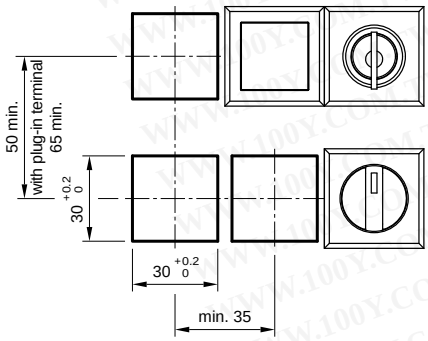
10 Stop pusbutton actuator, flush mounting page 37 **| Mushroom-head pushbutton actuator, flush mounting** page 37



11 Key insert switch actuator 2 positions, flush mounting page 45 **| Key insert switch actuator 3 positions, flush mounting** page 46

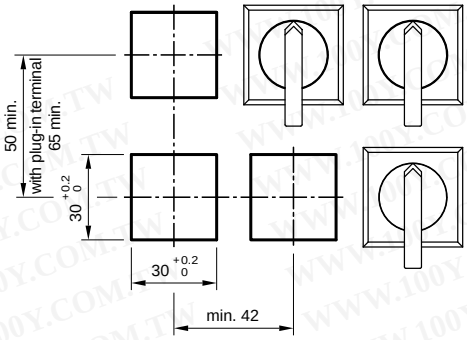


12 Indicator, flush mounting page 32 **| Flasher, flush mounting** page 33 **| Pushbutton actuator, flush mounting** page 34 **| Illuminated pushbutton actuator, flush mounting** page 36 **| Keylock switch actuator 2 positions, flush mounting** page 38 **| Keylock switch actuator 3 positions, flush mounting** page 39 **| Selector switch actuator 2 positions, short lever, flush mounting** page 40 **| Selector switch actuator 2 positions, short lever, 12 o'clock, flush mounting** page 40 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42

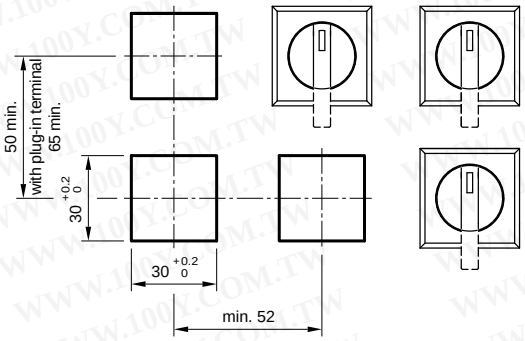


Downloaded from DatasheetLib.com - datasheet search engine

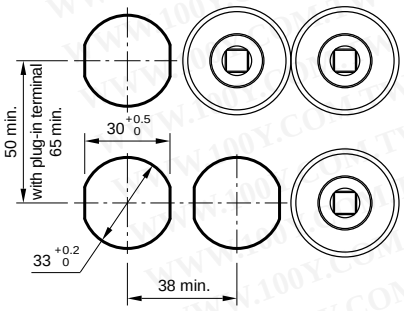
13 Selector switch actuator 2 positions, long lever, flush mounting page 41 **| Selector switch actuator 2 positions, long lever, 12 o'clock, flush mounting** page 41 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43



14 Rotary selector switch actuator, short lever, flush mounting page 44 **| Rotary selector switch actuator, long lever, flush mounting** page 44



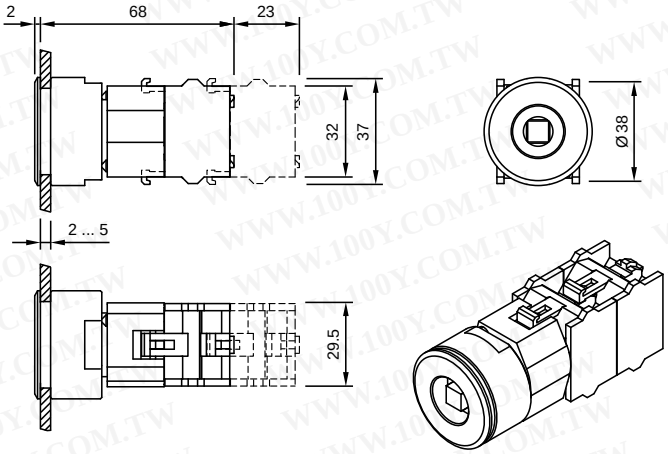
15 Key insert switch actuator 3 positions Conductor Switch, flush mounting page 46



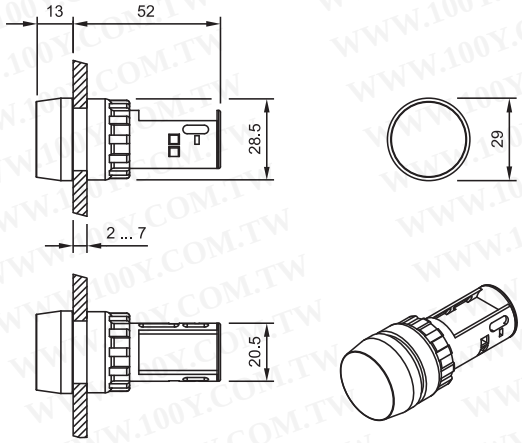
Downloaded from DatasheetLib.com - datasheet search engine

Technical drawing

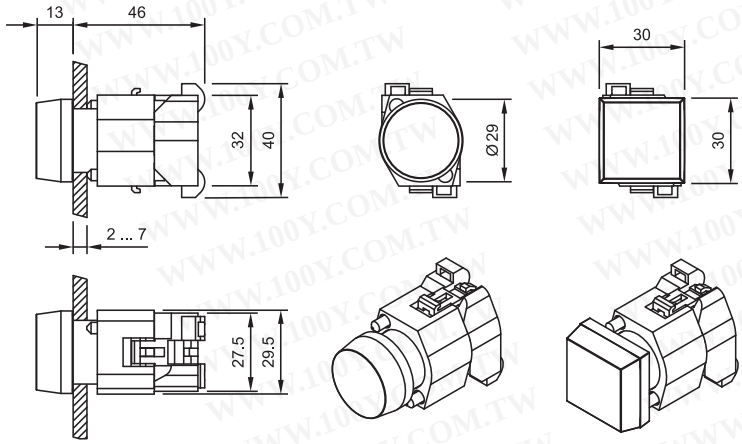
1 Key insert switch actuator 2 positions, flush mounting page 45 **| Key insert switch actuator 3 positions, flush mounting** page 46



2 Indicator full-face illumination compact page 12

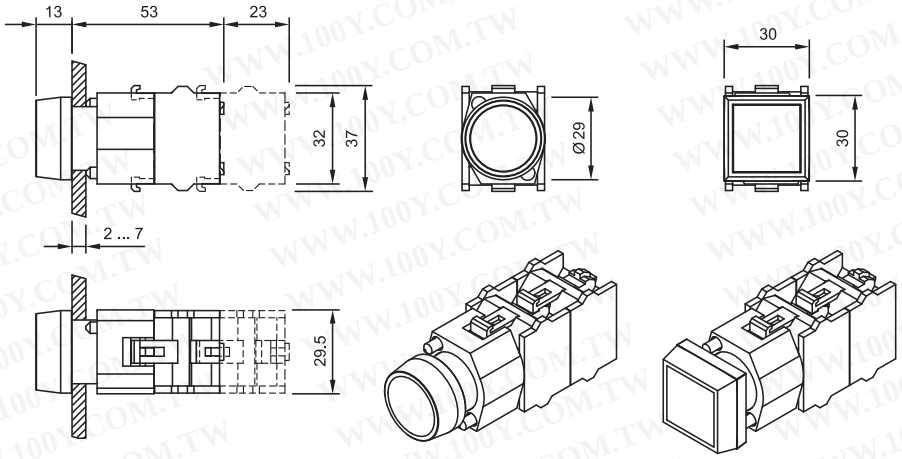


3 Indicator full face illumination page 13

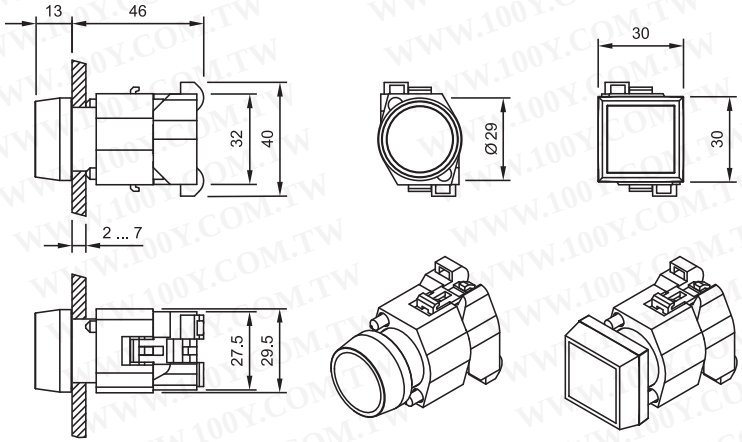


Downloaded from DatasheetLib.com - datasheet search engine

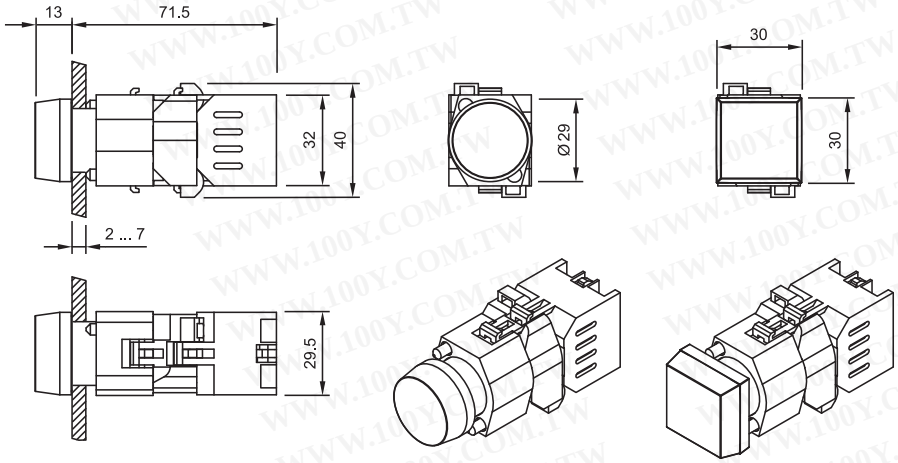
4 Pushbutton actuator page 18



5 Indicator front illumination page 14

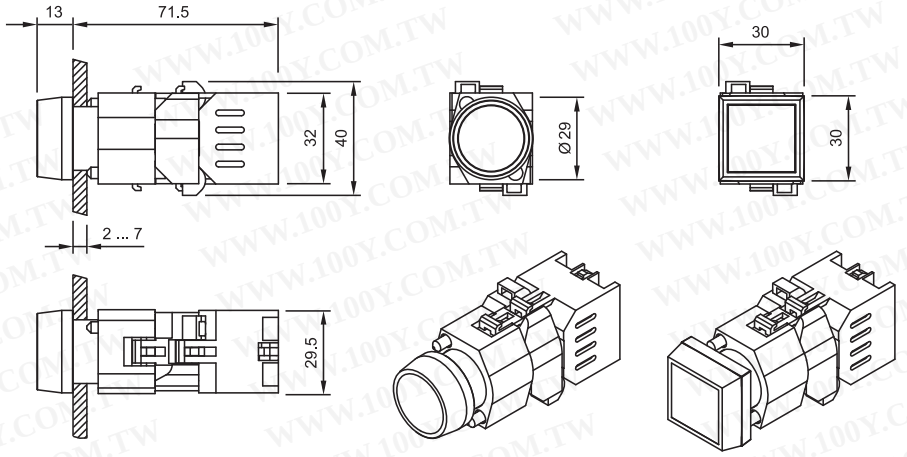


6 Flasher full face illumination page 15

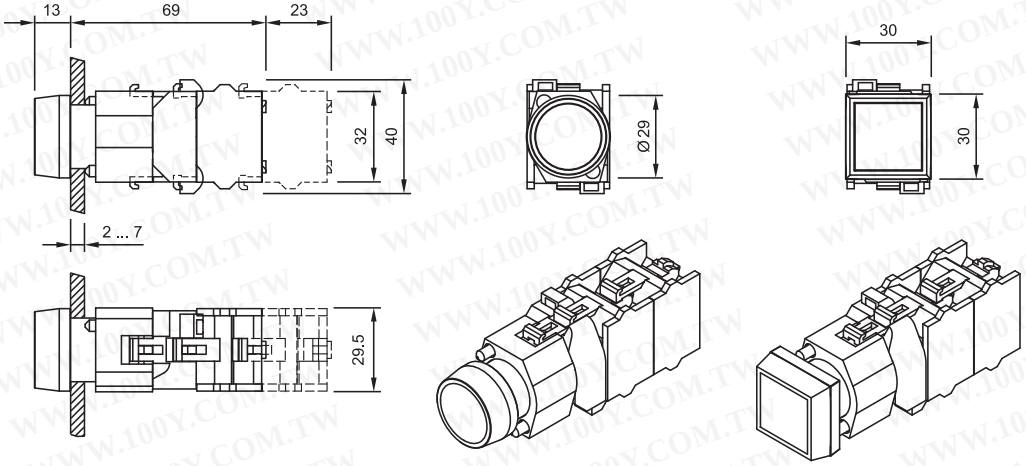


Downloaded from DatasheetLib.com - datasheet search engine

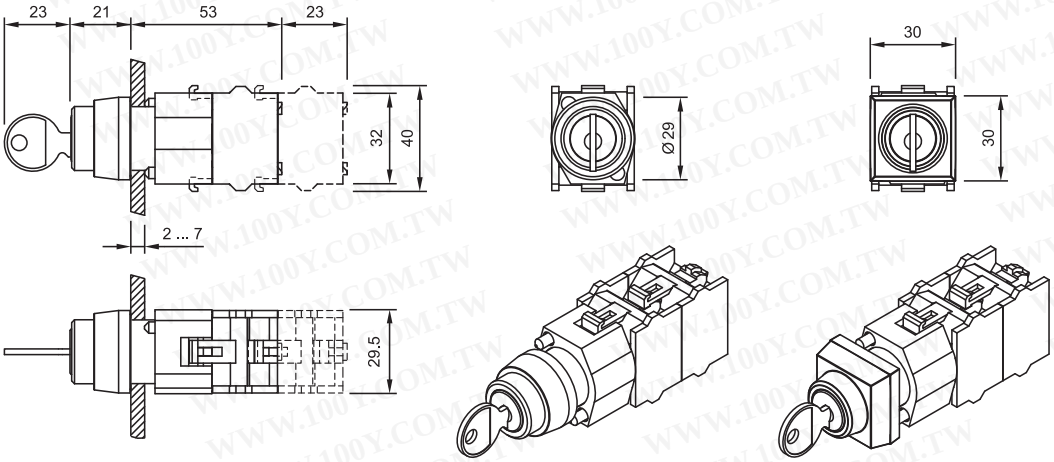
7 Flasher front illumination page 16



8 Illuminated pushbutton actuator page 20

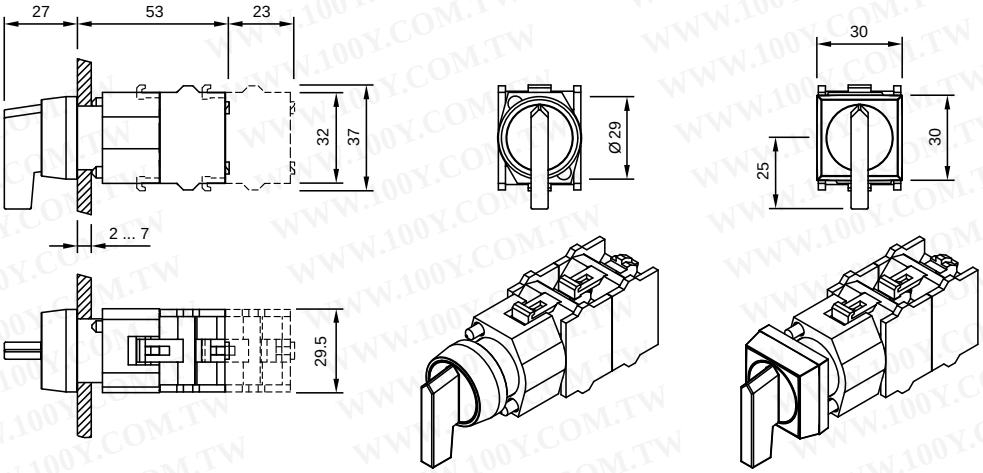


9 Keylock switch actuator 2 positions page 25 **| Keylock switch actuator 3 positions** page 26

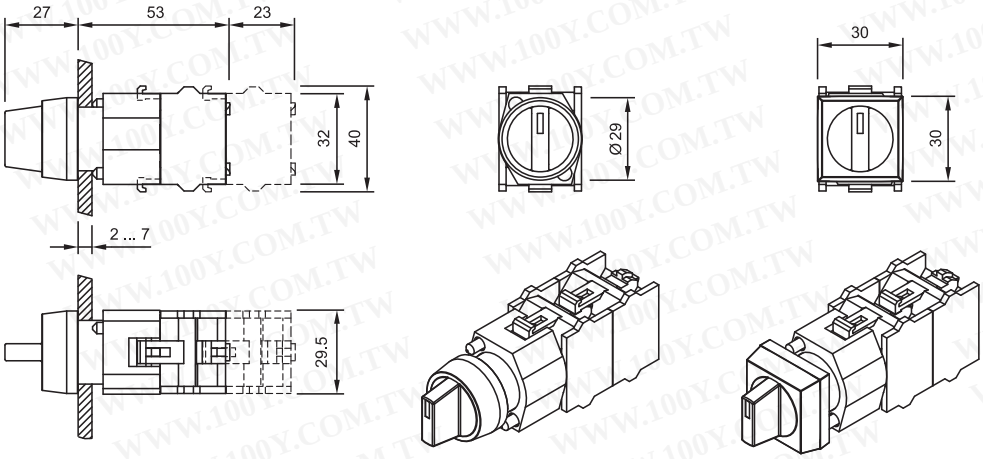


Downloaded from DatasheetLib.com - datasheet search engine

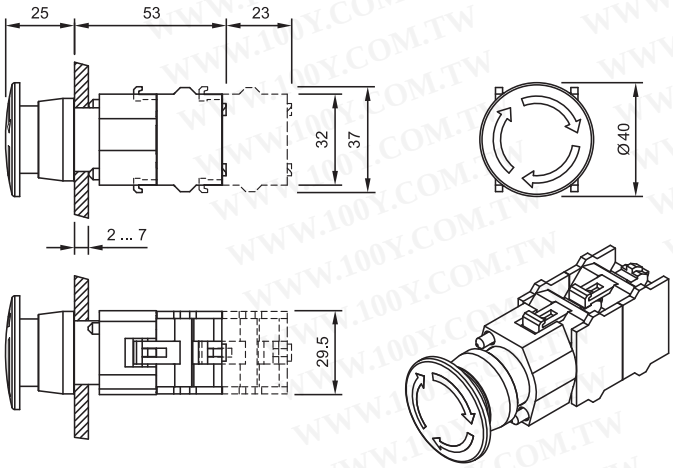
10 Selector switch actuator 2 positions, long lever page 28 **| Selector switch actuator 2 positions, long lever, 12 o'clock** page 28 **| Selector switch actuator 3 positions, long lever** page 30



11 Selector switch actuator 2 positions, short lever page 27 **| Selector switch actuator 2 positions, short lever, 12 o'clock** page 27 **| Selector switch actuator 3 positions, short lever** page 29

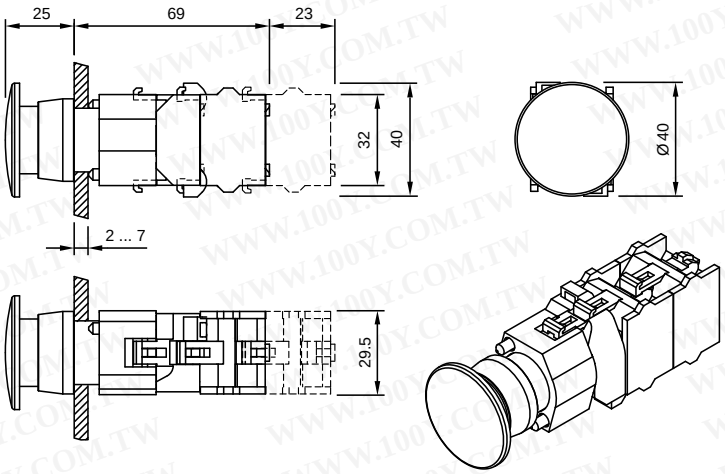


12 Stop pushbutton actuator page 22

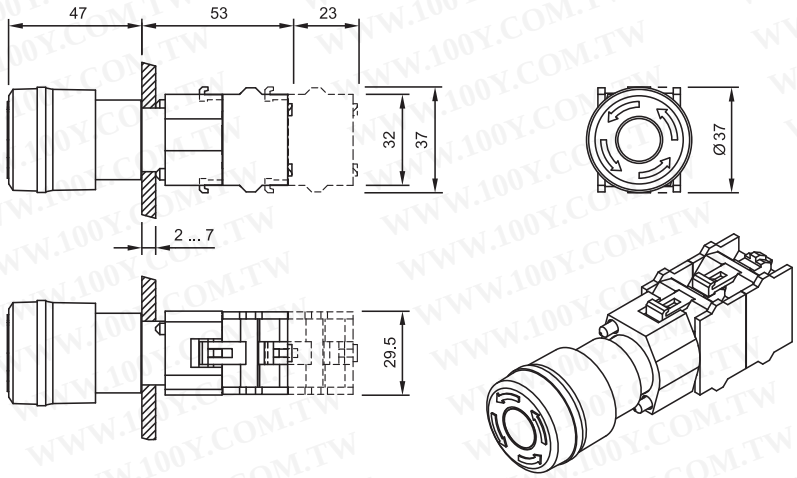


Downloaded from DatasheetLib.com - datasheet search engine

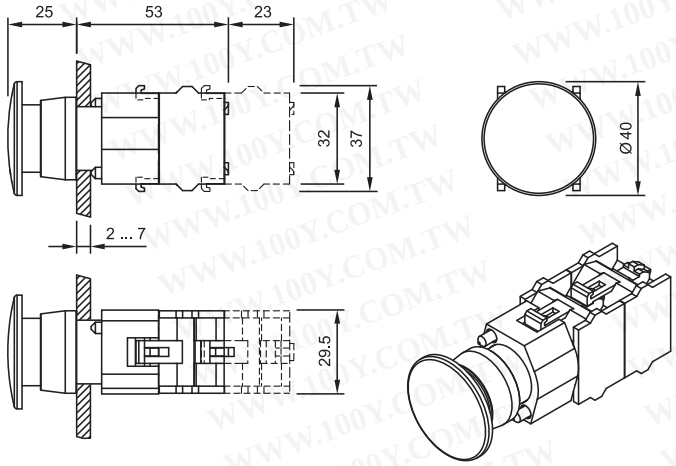
13 Mushroom-head pushbutton actuator illuminated page 24



14 Emergency-stop pushbutton actuator, foolproof EN IEC 60947-5-5 page 21

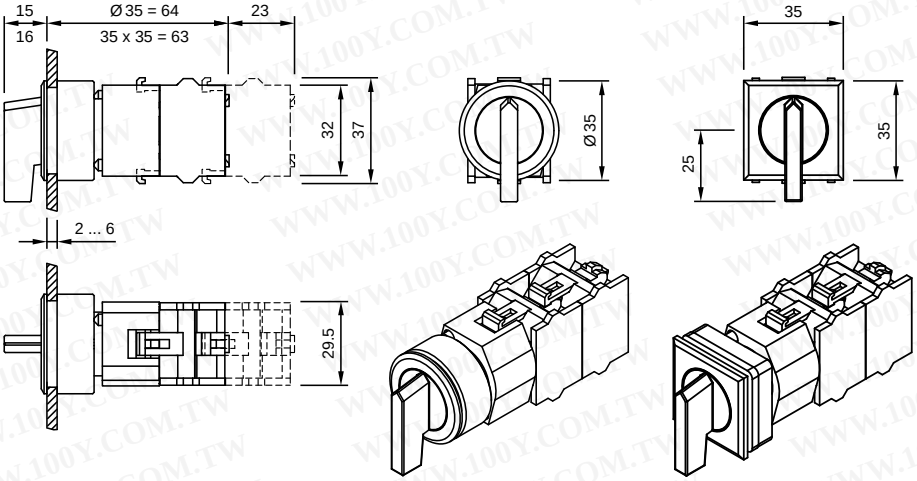


15 Mushroom-head pushbutton actuator page 23

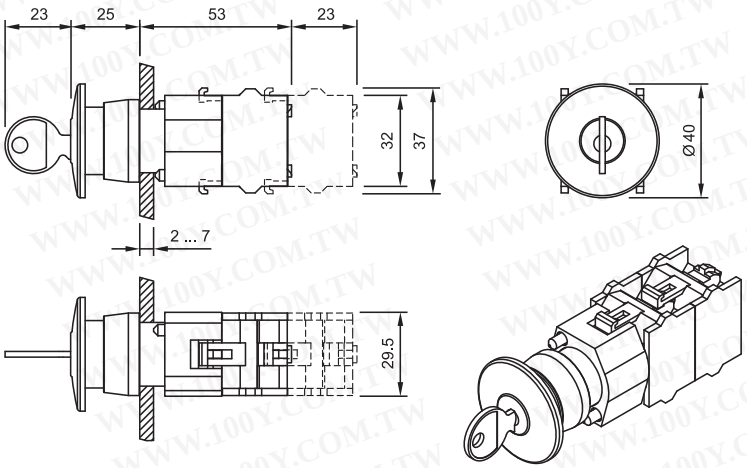


Downloaded from DatasheetLib.com - datasheet search engine

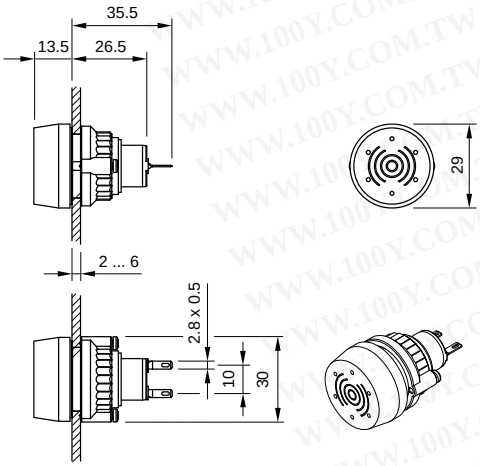
16 Selector switch actuator 2 positions, long lever, flush mounting page 41 **| Selector switch actuator 2 positions, long lever, 12 o'clock, flush mounting** page 41 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43



17 Stop pushbutton actuator page 22

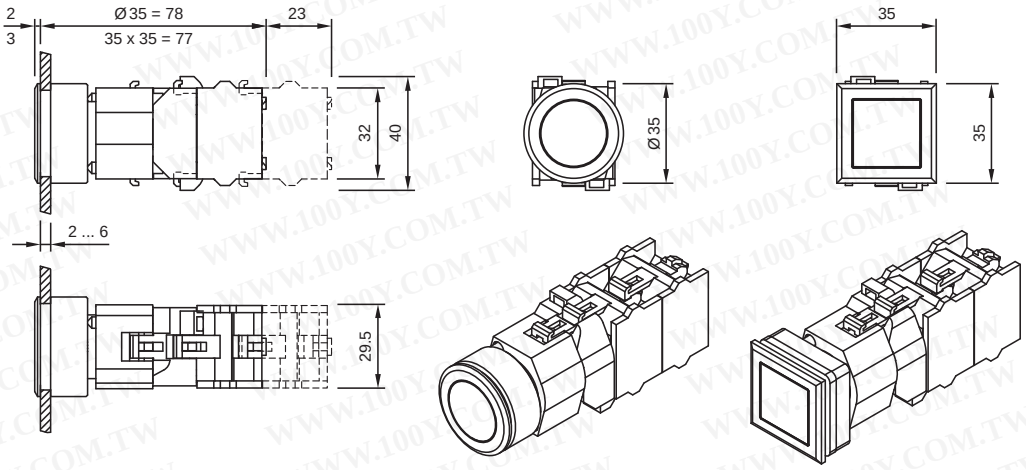


18 Buzzer page 17

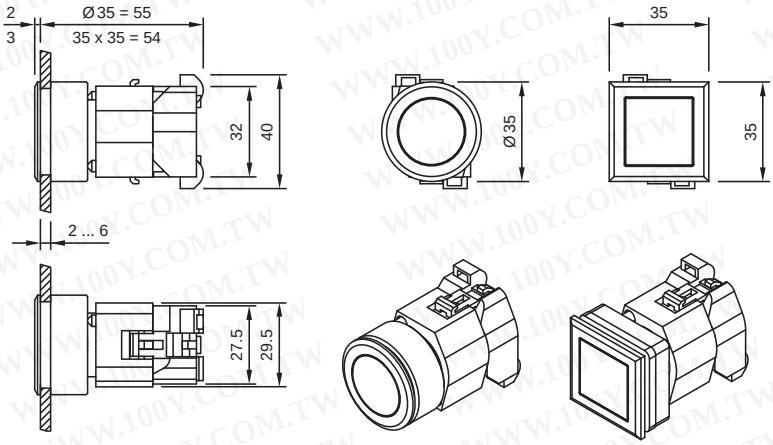


Downloaded from DatasheetLib.com - datasheet search engine

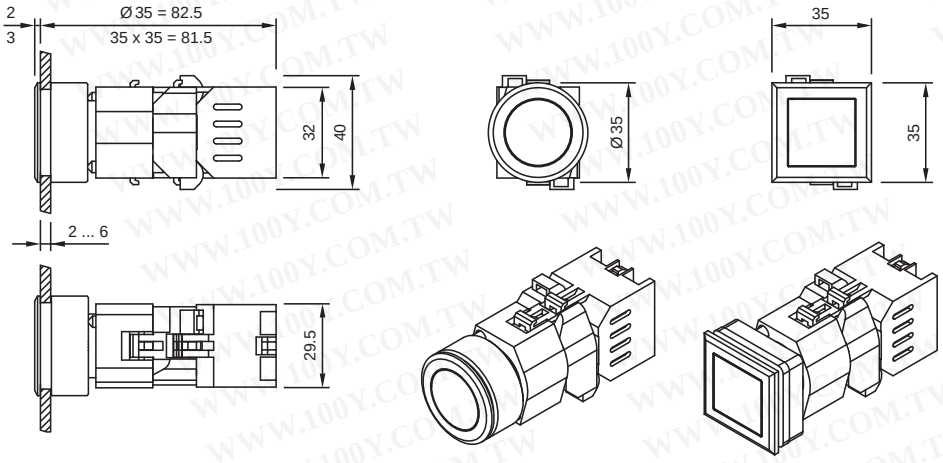
19 Illuminated pushbutton actuator, flush mounting page 36



20 Indicator, flush mounting page 32

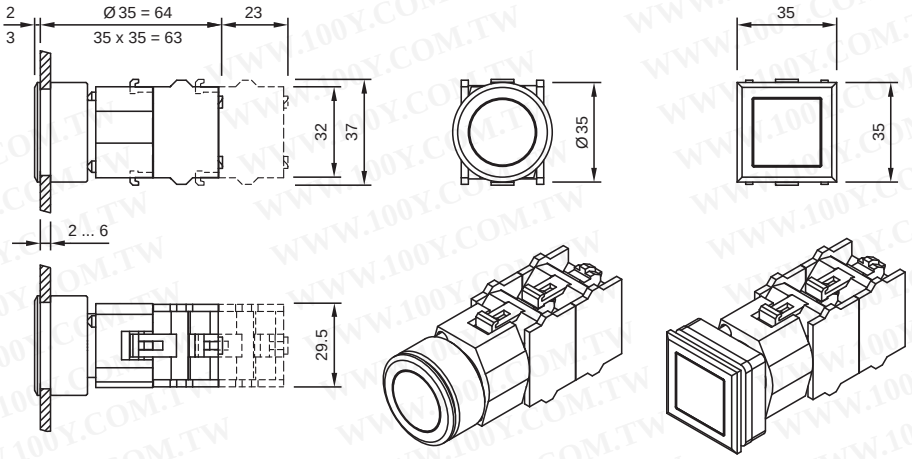


21 Flasher, flush mounting page 33

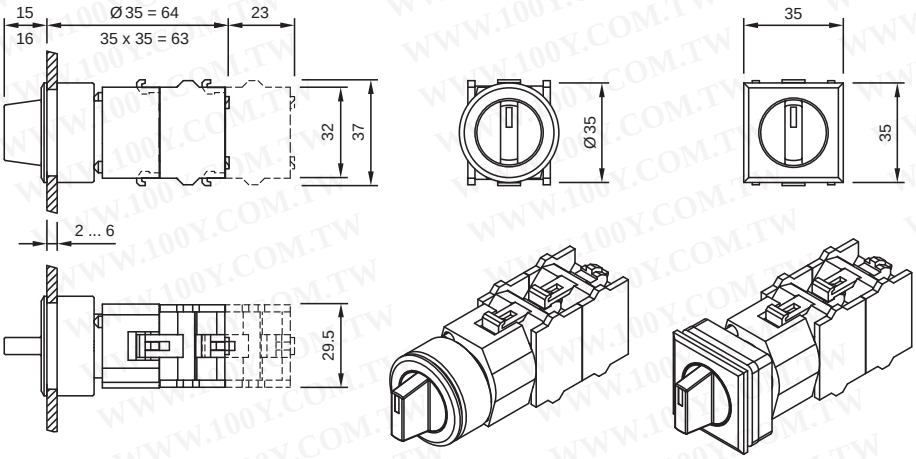


Downloaded from DatasheetLib.com - datasheet search engine

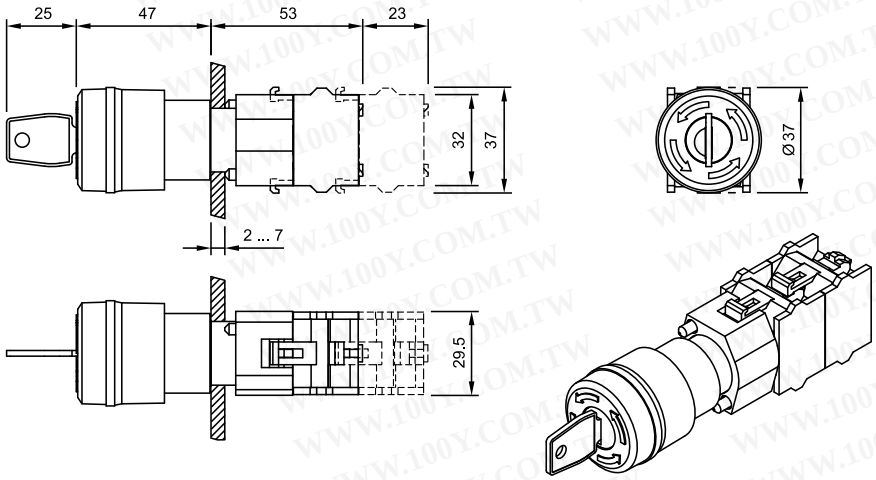
22 Pushbutton actuator, flush mounting page 34



23 Selector switch actuator 2 positions, short lever, flush mounting page 40 **| Selector switch actuator 2 positions, short lever, 12 o'clock, flush mounting** page 40 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43

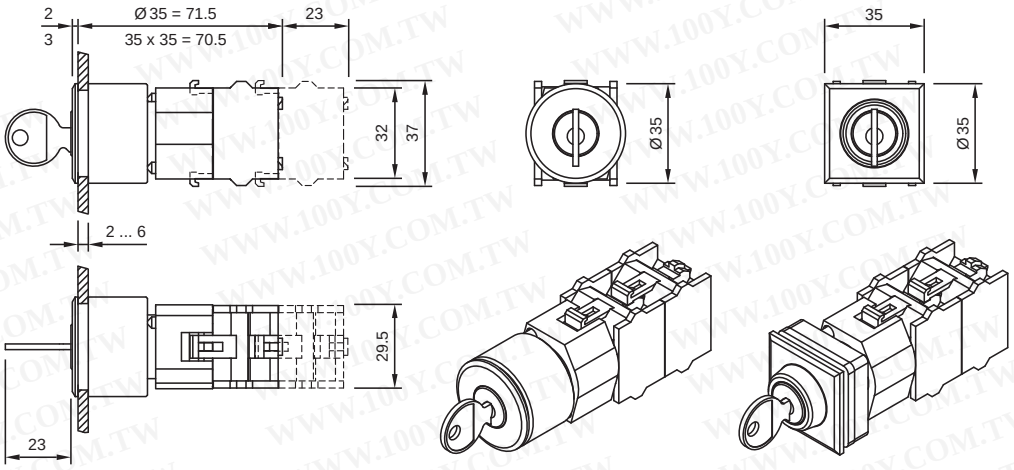


24 Emergency-stop pushbutton actuator, foolproof EN IEC 60947-5-5 page 21

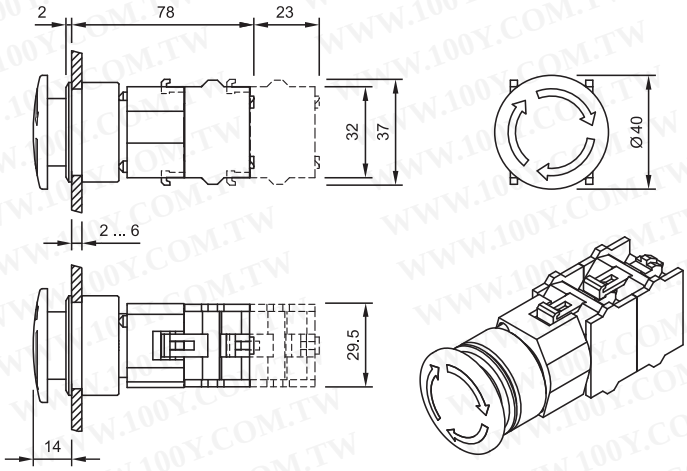


Downloaded from DatasheetLib.com - datasheet search engine

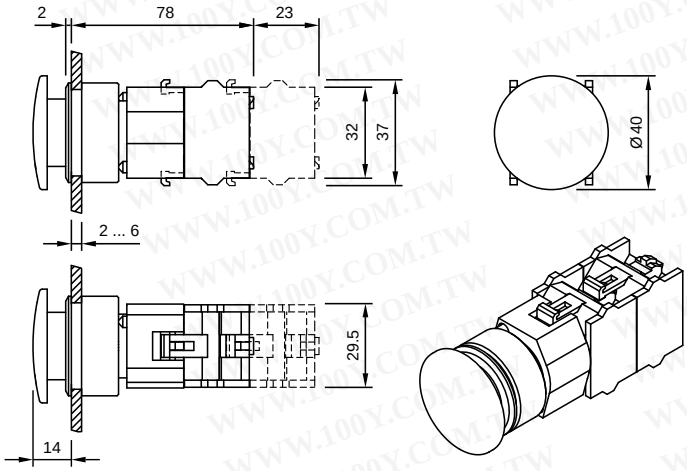
25 Keylock switch actuator 2 positions, flush mounting page 38 **| Keylock switch actuator 3 positions, flush mounting** page 39



26 Stop pusbutton actuator, flush mounting page 37

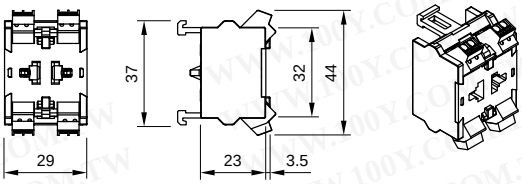


27 Mushroom-head pushbutton actuator, flush mounting page 37

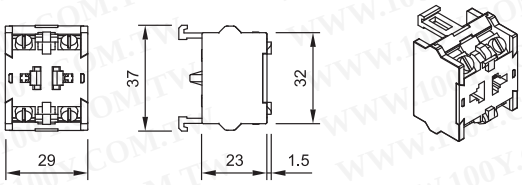


Downloaded from DatasheetLib.com - datasheet search engine

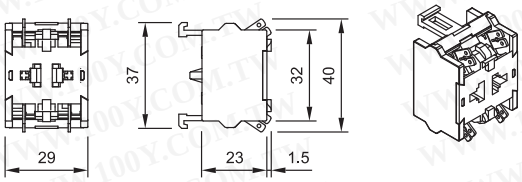
28 Switching element page 51 **| Switching element for Emergency-stop pushbutton** page 54



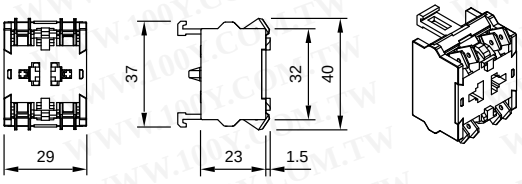
29 Switching element page 51 **| Switching element for ring cable shoe** page 53 **| Switching element for Emergency-stop pushbutton** page 54



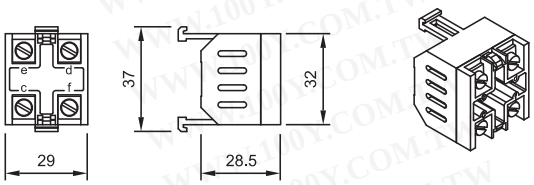
30 Switching element page 51 **| Switching element for Emergency-stop pushbutton** page 54



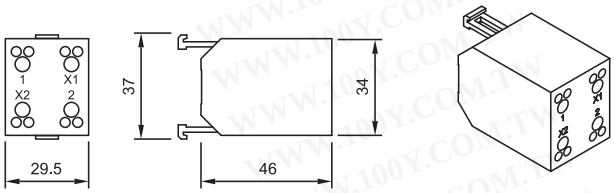
31 Switching element page 51 **| Switching element for Emergency-stop pushbutton** page 54



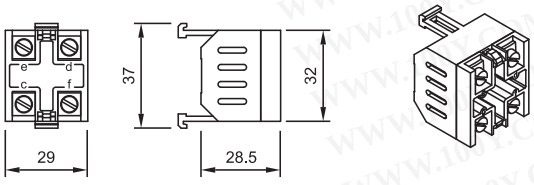
32 Flasher element page 50



33 Lamp transformer page 59

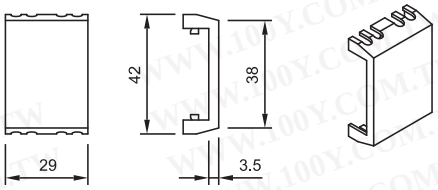


34 Diode block page 58 **| Resistor block** page 59 **| Resistor-diode block** page 59

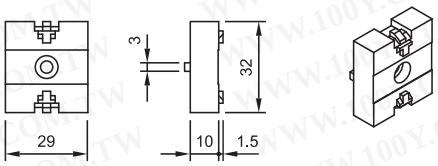


Downloaded from DatasheetLib.com - datasheet search engine

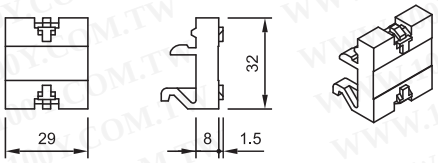
35 Terminal cover page 56



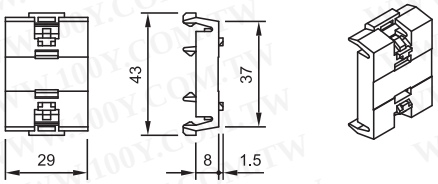
36 Mounting plate page 61



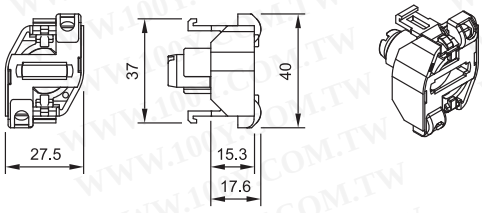
37 Snap-on base page 62



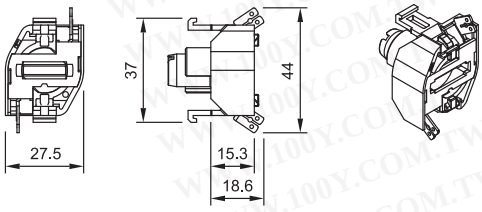
38 Snap-on base page 62



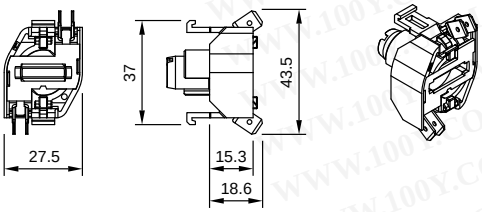
39 Lamp block page 65 **| Lamp block** page 67 **| Lamp block** page 70 **| Lamp block** page 71 **| Lamp block** page 74 **| Lamp block** page 76



40 Lamp block page 65 **| Lamp block** page 67 **| Lamp block** page 70 **| Lamp block** page 71 **| Lamp block** page 74 **| Lamp block** page 76

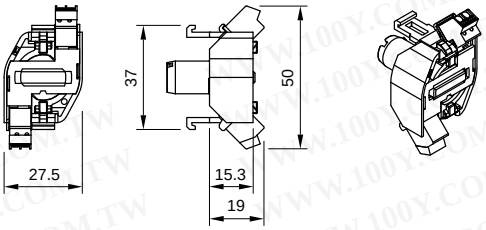


41 Lamp block page 65 **| Lamp block** page 67 **| Lamp block** page 70 **| Lamp block** page 71 **| Lamp block** page 74 **| Lamp block** page 76

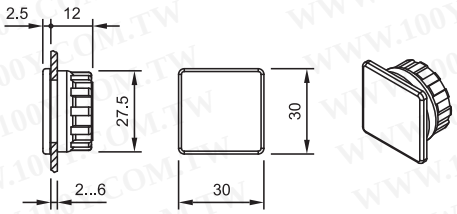


Downloaded from DatasheetLib.com - datasheet search engine

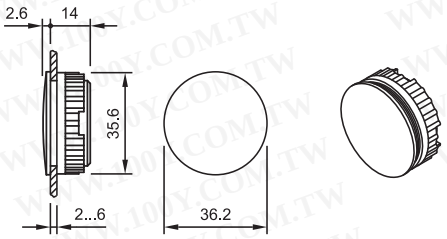
42 Lamp block page 65 **| Lamp block** page 67 **| Lamp block** page 70 **| Lamp block** page 71 **| Lamp block** page 74 **| Lamp block** page 76



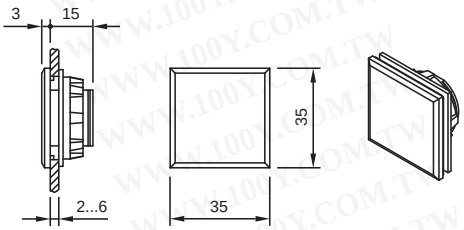
43 Blind plug page 49



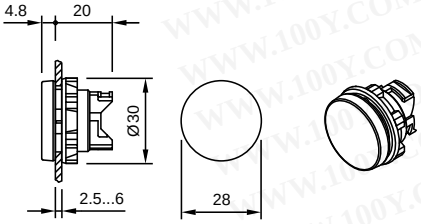
44 Blind plug page 49



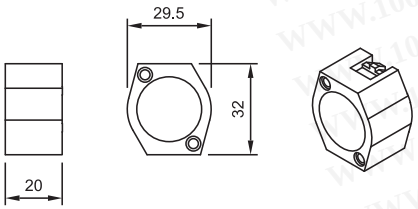
45 Blind plug page 49



46 Blind plug page 49

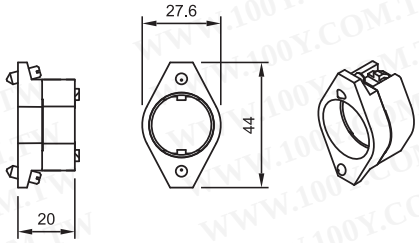


47 Bayonet flange page 65 **| Bayonet flange** page 66 **| Bayonet flange** page 69 **| Bayonet flange** page 71 **| Bayonet flange** page 74 **| Bayonet flange** page 76

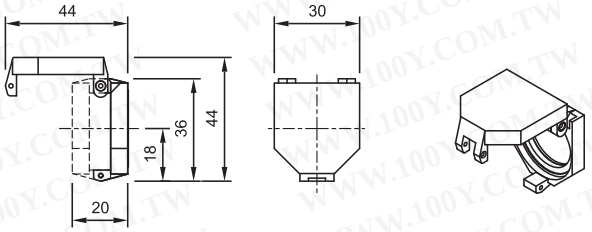


Downloaded from DatasheetLib.com - datasheet search engine

48 Bayonet flange page 65 **| Bayonet flange** page 66 **| Bayonet flange** page 69 **| Bayonet flange** page 71 **| Bayonet flange** page 74 **| Bayonet flange** page 76

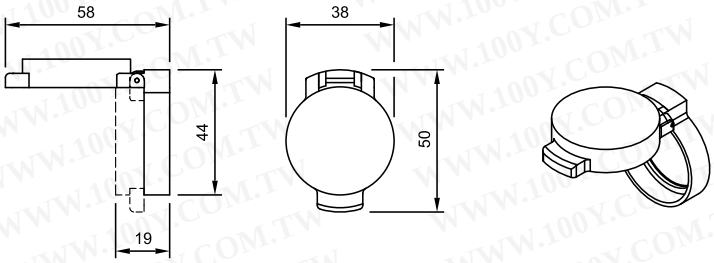


49 Protective cover page 48



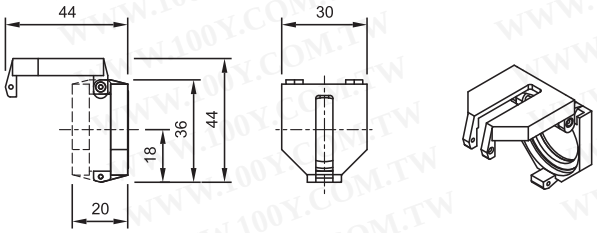
Front panel thickness reduces by 3.5 mm to max. 4.5 mm

50 Protective cover, flush mounting page 49



Front panel thickness reduces by 2.5 mm to max. 3.5 mm

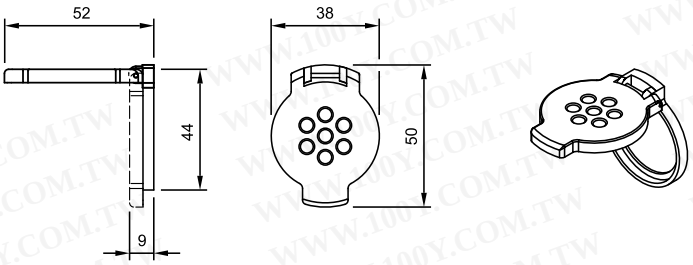
51 Protective cover page 48



Front panel thickness reduces by 3.5 mm to max. 4.5 mm

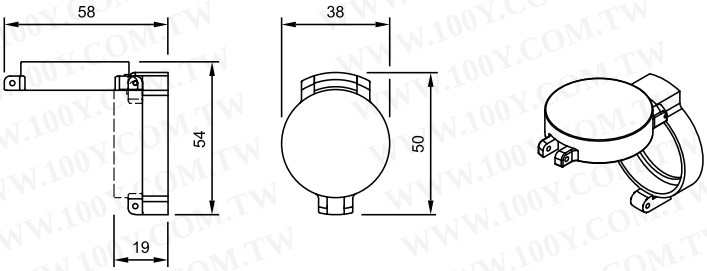
Downloaded from DatasheetLib.com - datasheet search engine

52 Protective cover, flush mounting page 49



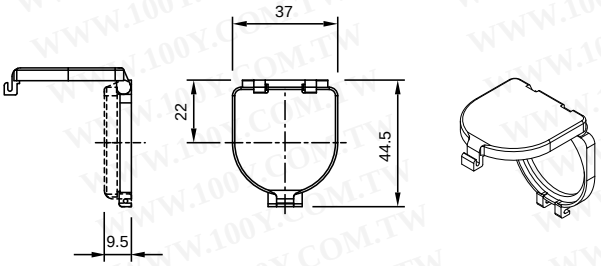
Front panel thickness reduces by 2.5 mm to max. 3.5 mm

53 Protective cover, flush mounting page 49

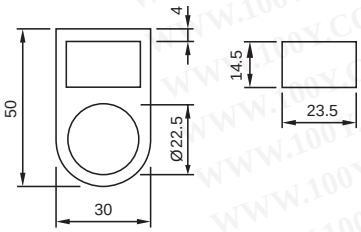


Front panel thickness reduces by 2.5 mm to max. 3.5 mm

54 Protective cover, flush mounting page 49

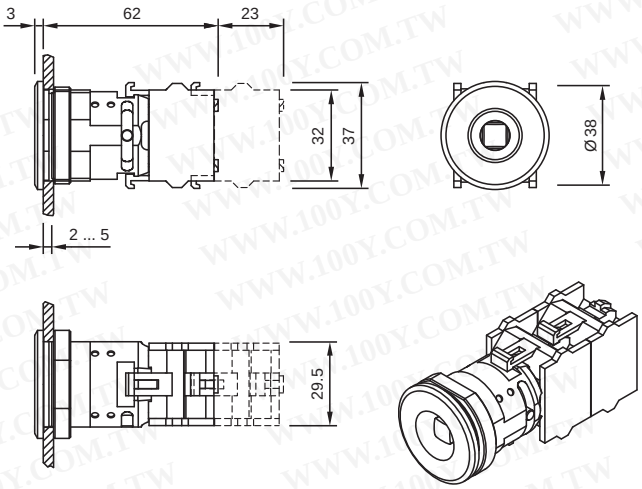


55 Legend frame page 48

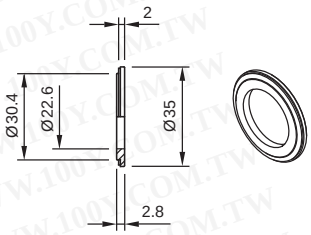


Downloaded from DatasheetLib.com - datasheet search engine

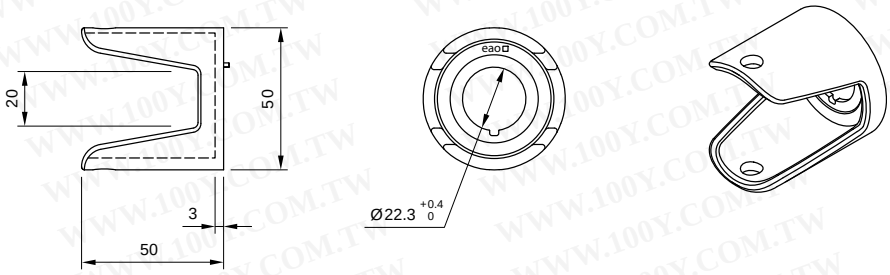
56 Key insert switch actuator 3 positions Conductor Switch, flush mounting page 46



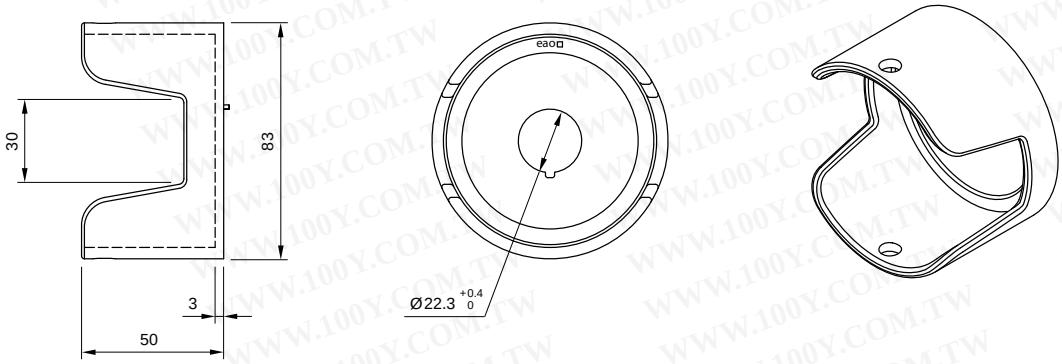
57 Reducing ring page 61



58 Emergency-stop protective shroud page 60

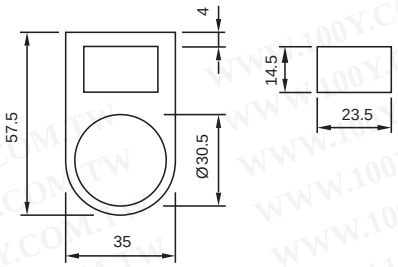


59 Emergency-stop protective shroud page 60

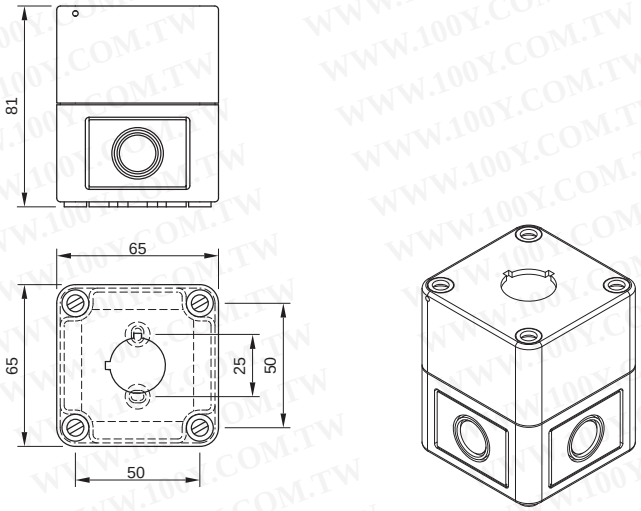


Downloaded from DatasheetLib.com - datasheet search engine

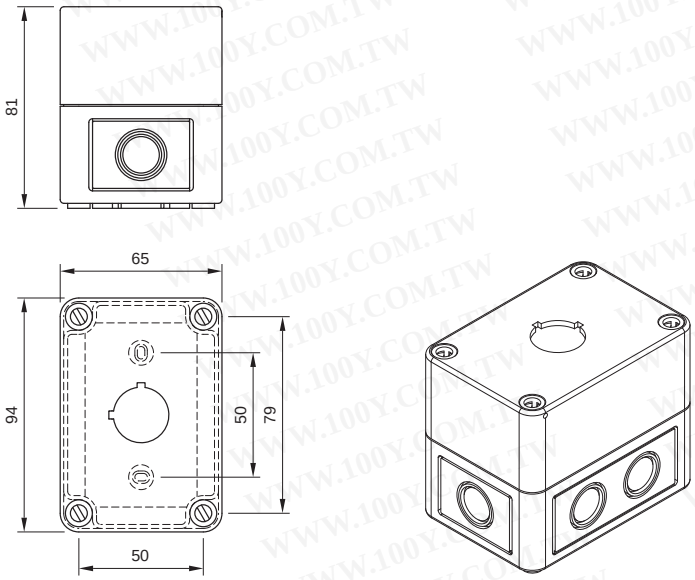
60 Legend frame page 48



61 Emergency-stop enclosures page 60

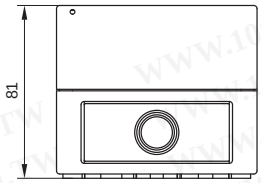


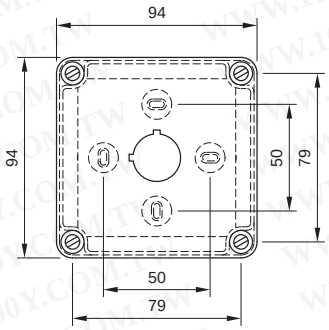
62 Emergency-stop enclosures page 60

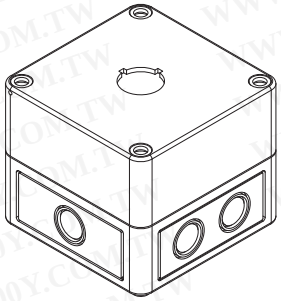


Downloaded from DatasheetLib.com - datasheet search engine

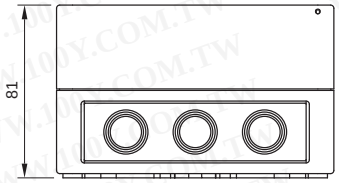
63 Emergency-stop enclosures page 60 **| Enclosure** page 63

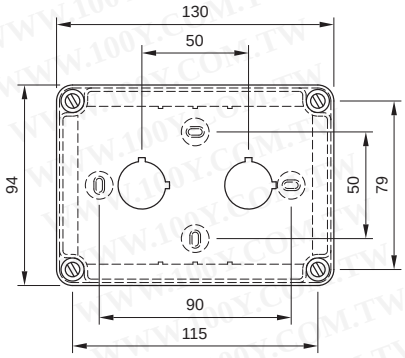


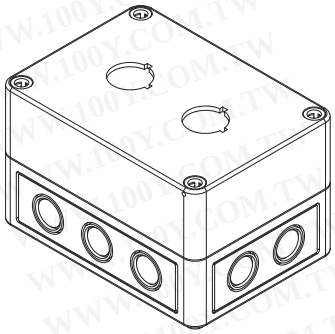




64 Enclosure page 63

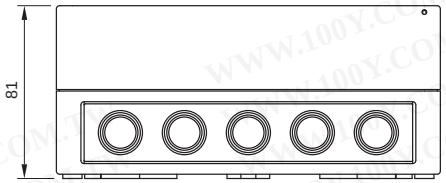


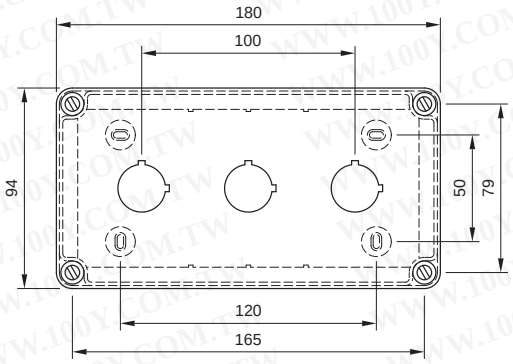


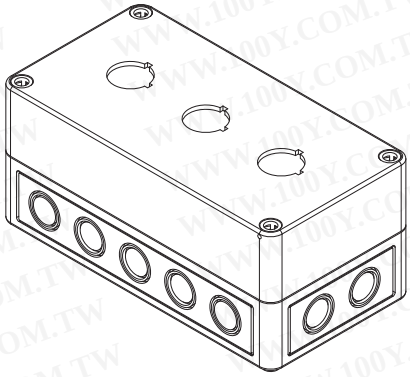


Downloaded from DatasheetLib.com - datasheet search engine

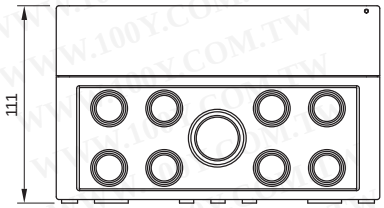
65 Enclosure page 63

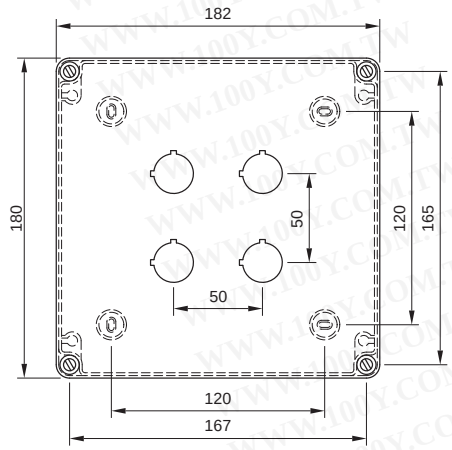


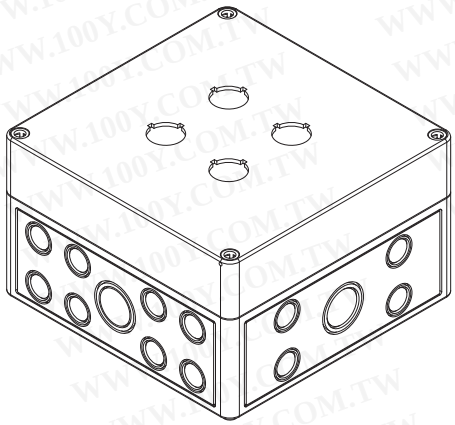




66 Enclosure page 63

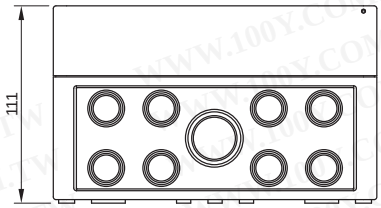


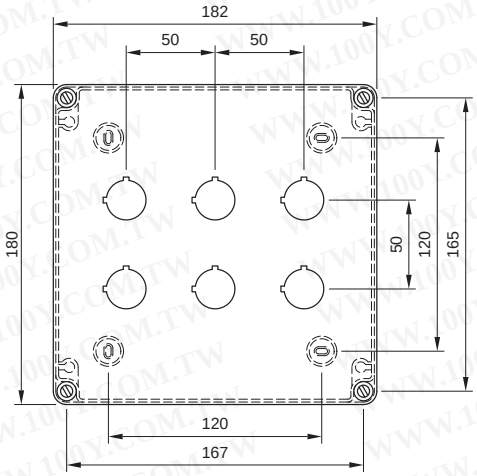


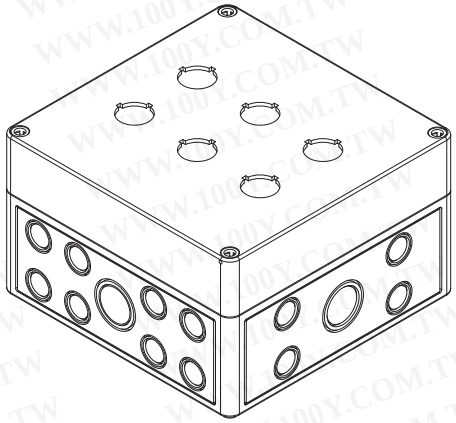


Downloaded from DatasheetLib.com - datasheet search engine

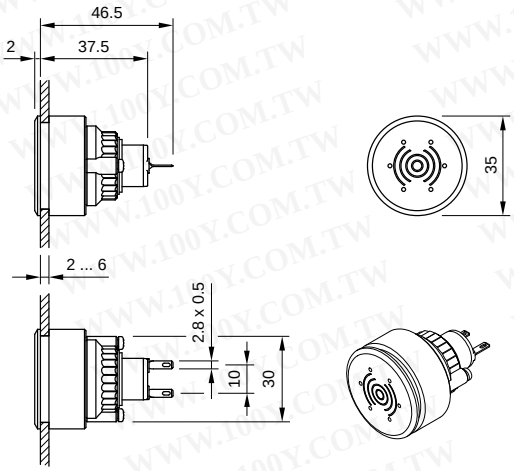
67 Enclosure page 63





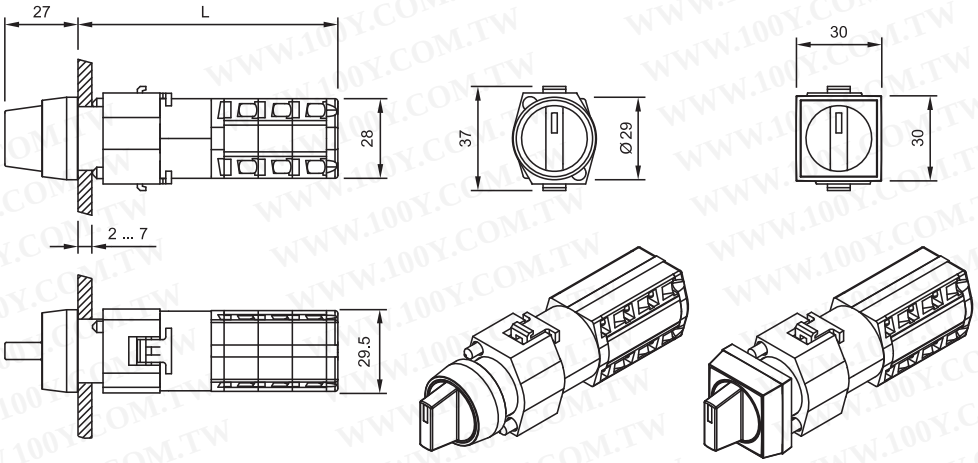


68 Buzzer, flush mounting page 33



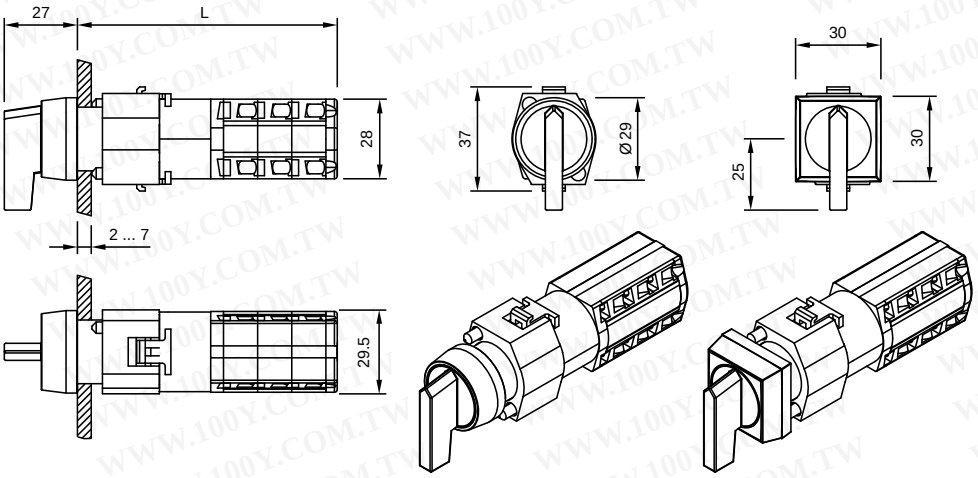
Downloaded from DatasheetLib.com - datasheet search engine

69 Rotary selector switch actuator, short lever page 31



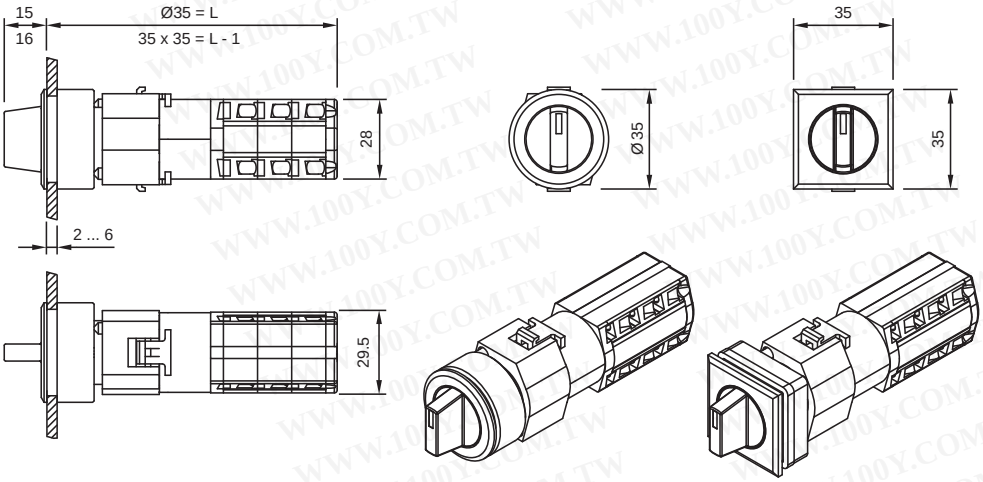
Stages	L
1	66.5
2	78.5
3	90.5
4	102.5
5	114.5
6	126.5
7	138.5
8	150.5

70 Rotary selector switch actuator, long lever page 31



Stages	L
1	66.5
2	78.5
3	90.5
4	102.5
5	114.5
6	126.5
7	138.5
8	150.5

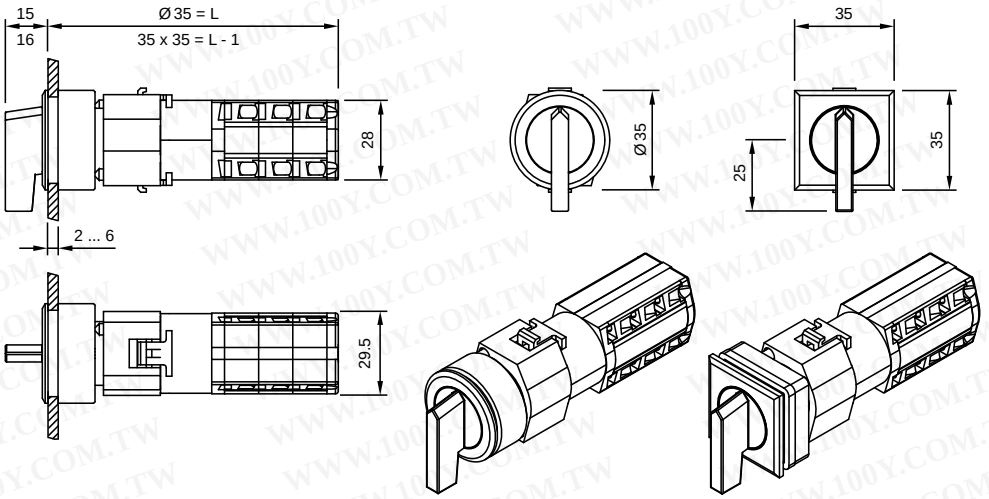
71 Rotary selector switch actuator, short lever, flush mounting page 44



Stages	L
1	78.5
2	90.5
3	102.5
4	114.5
5	126.5
6	138.5
7	150.5
8	162.5

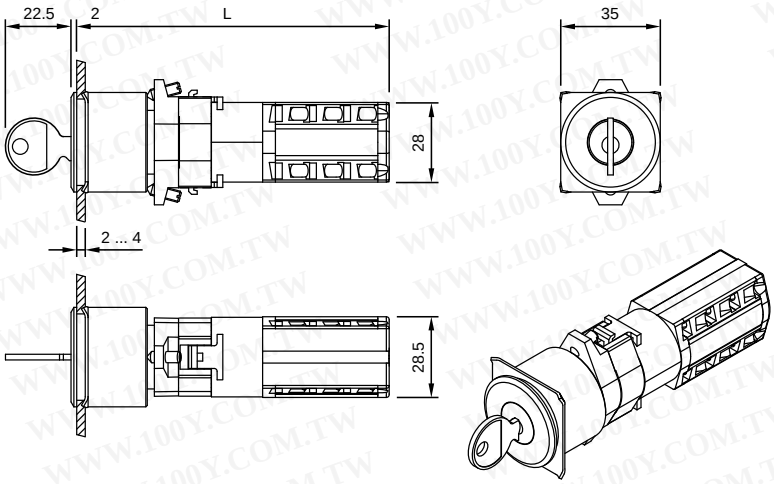
Downloaded from DatasheetLib.com - datasheet search engine

72 Rotary selector switch actuator, long lever, flush mounting page 44



Stages	L
1	78.5
2	90.5
3	102.5
4	114.5
5	126.5
6	138.5
7	150.5
8	162.5

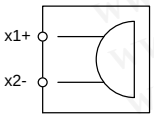
73 Keylock rotary switch actuator, flush mounting page 45



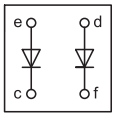
Stages	L
1	85.5
2	97.5
3	109.5
4	121.5
5	133.5
6	145.5
7	157.5
8	169.5

Circuit drawing

1 Buzzer page 17 **| Buzzer, flush mounting** page 33



2 Diode block page 58



3 Pushbutton actuator page 18 **| Mushroom-head pushbutton actuator** page 23 **| Pushbutton actuator, flush mounting** page 34 **| Illuminated pushbutton actuator, flush mounting** page 36 **| Mushroom-head pushbutton actuator, flush mounting** page 37



4 Pushbutton actuator page 18 **| Mushroom-head pushbutton actuator** page 23 **| Pushbutton actuator, flush mounting** page 34 **| Illuminated pushbutton actuator, flush mounting** page 36 **| Mushroom-head pushbutton actuator, flush mounting** page 37



Downloaded from DatasheetLib.com - datasheet search engine

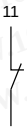
5 Indicator full-face illumination compact page 12 **| Indicator full face illumination** page 13 **| Indicator front illumination** page 14 **| Flasher full face illumination** page 15 **| Flasher front illumination** page 16 **| Indicator, flush mounting** page 32 **| Flasher, flush mounting** page 33 **| Indicator actuator for Indicator compact** page 64 **| Lamp block** page 65 **| Lamp block** page 67 **| Lamp block** page 70 **| Lamp block** page 71 **| Lamp block** page 74 **| Lamp block** page 76



6 Emergency-stop pushbutton actuator, foolproof EN IEC 60947-5-5 page 21 **| Stop pushbutton actuator** page 22 **| Stop pusbutton actuator, flush mounting** page 37



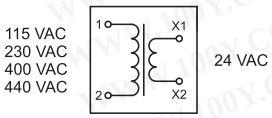
7 Switching element page 51 **| Switching element for ring cable shoe** page 53 **| Switching element for Emergency-stop pushbutton** page 54



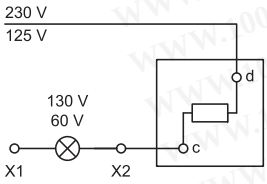
8 Switching element page 51 **| Switching element for ring cable shoe** page 53 **| Switching element for Emergency-stop pushbutton** page 54



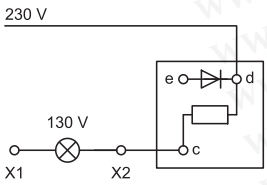
9 Lamp transformer page 59



10 Resistor block page 59

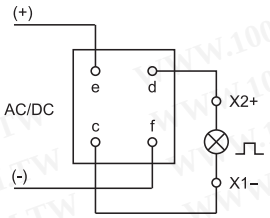


11 Resistor-diode block page 59

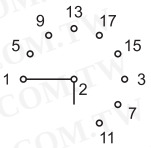


Downloaded from DatasheetLib.com - datasheet search engine

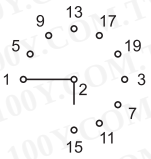
12 Flasher element page 50



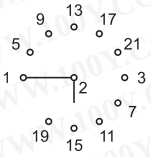
13 Rotary selector switching element 30° page 55



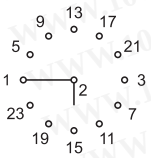
14 Rotary selector switching element 30° page 55



15 Rotary selector switching element 30° page 55



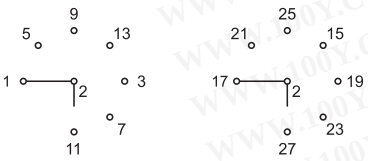
16 Rotary selector switching element 30° page 55



17 Rotary selector switching element 45° page 55

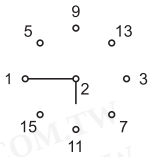


18 Rotary selector switching element 45° page 55

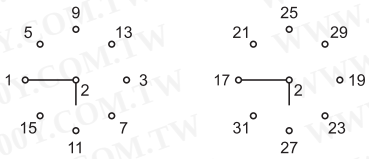


Downloaded from DatasheetLib.com - datasheet search engine

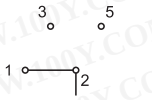
19 Rotary selector switching element 45° page 55



20 Rotary selector switching element 45° page 55



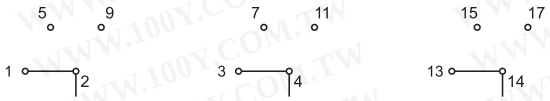
21 Rotary selector switching element 60° page 56



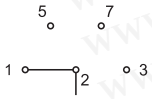
22 Rotary selector switching element 60° page 56



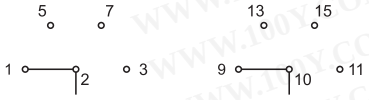
23 Rotary selector switching element 60° page 56



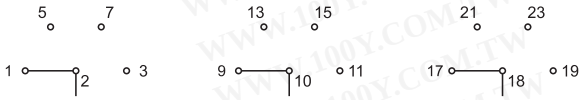
24 Rotary selector switching element 60° page 56



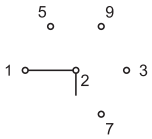
25 Rotary selector switching element 60° page 56



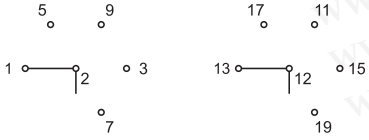
26 Rotary selector switching element 60° page 56



27 Rotary selector switching element 60° page 56

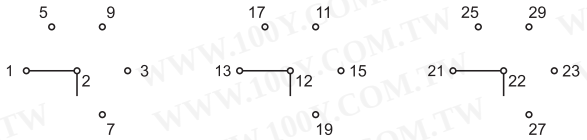


28 Rotary selector switching element 60° page 56

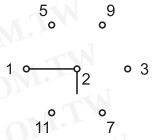


Downloaded from DatasheetLib.com - datasheet search engine

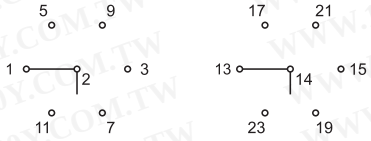
29 Rotary selector switching element 60° page 56



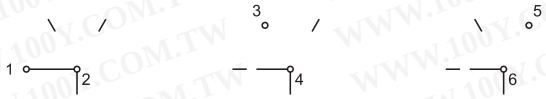
30 Rotary selector switching element 60° page 56



31 Rotary selector switching element 60° page 56



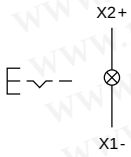
32 Rotary selector switching element 60° page 56



33 Rotary selector switching element 60° page 56



34 Illuminated pushbutton actuator page 20 **| Mushroom-head pushbutton actuator illuminated** page 24 **| Illuminated pushbutton actuator, flush mounting** page 36



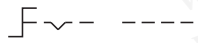
35 Selector switch actuator 3 positions, short lever page 29 **| Selector switch actuator 3 positions, long lever** page 30 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43



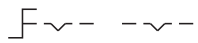
36 Selector switch actuator 3 positions, short lever page 29 **| Selector switch actuator 3 positions, long lever** page 30 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43



37 Selector switch actuator 2 positions, short lever page 27 **| Selector switch actuator 2 positions, long lever** page 28 **| Selector switch actuator 2 positions, short lever, flush mounting** page 40 **| Selector switch actuator 2 positions, long lever, flush mounting** page 41



38 Selector switch actuator 2 positions, short lever page 27 **| Selector switch actuator 2 positions, short lever, 12 o'clock** page 27 **| Selector switch actuator 2 positions, long lever** page 28 **| Selector switch actuator 2 positions, long lever, 12 o'clock** page 28 **| Selector switch actuator 2 positions, short lever, flush mounting** page 40 **| Selector switch actuator 2 positions, short lever, 12 o'clock, flush mounting** page 40 **| Selector switch actuator 2 positions, long lever, flush mounting** page 41 **| Selector switch actuator 2 positions, long lever, 12 o'clock, flush mounting** page 41



Downloaded from DatasheetLib.com - datasheet search engine

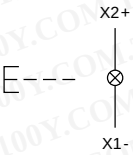
39 Selector switch actuator 3 positions, short lever page 29 **| Selector switch actuator 3 positions, long lever** page 30 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43



40 Selector switch actuator 3 positions, short lever page 29 **| Selector switch actuator 3 positions, long lever** page 30 **| Selector switch actuator 3 positions, short lever, flush mounting** page 42 **| Selector switch actuator 3 positions, long lever, flush mounting** page 43



41 Illuminated pushbutton actuator page 20 **| Mushroom-head pushbutton actuator illuminated** page 24 **| Illuminated pushbutton actuator, flush mounting** page 36



42 Keylock switch actuator 3 positions page 26 **| Keylock switch actuator 3 positions, flush mounting** page 39



43 Keylock switch actuator 3 positions page 26 **| Keylock switch actuator 3 positions, flush mounting** page 39



44 Keylock switch actuator 2 positions page 25 **| Keylock switch actuator 2 positions, flush mounting** page 38



45 Keylock switch actuator 2 positions page 25 **| Keylock switch actuator 2 positions, flush mounting** page 38



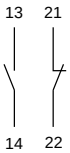
46 Keylock switch actuator 3 positions page 26 **| Keylock switch actuator 3 positions, flush mounting** page 39



47 Keylock switch actuator 3 positions page 26 **| Keylock switch actuator 3 positions, flush mounting** page 39



48 Switching element page 51 **| Switching element for ring cable shoe** page 53 **| Switching element for Emergency-stop pushbutton** page 54

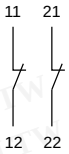


49 Switching element page 51 **| Switching element for ring cable shoe** page 53 **| Switching element for Emergency-stop pushbutton** page 54



Downloaded from DatasheetLib.com - datasheet search engine

50 Switching element page 51 **| Switching element for ring cable shoe** page 53 **| Switching element for Emergency-stop pushbutton** page 54



51 Indicator full-face illumination compact page 12



Downloaded from DatasheetLib.com - datasheet search engine

Index from Typ-Nr.

Typ-Nr.	Page
02-912.1	59
02-912.2	59
02-912.3	59
02-912.4	59
10-1406.1369	57
10-1409.1329	57
10-1412.1279	57
10-1416.1289	57
10-1419.1249	57
10-1420.1219	57
10-1422.1179	57
10-1424.1179	57
10-2506.1082	58
10-2506.1084	58
10-2506.1085	58
10-2506.1086	58
10-2506.1089	58
10-2509.1142	58
10-2509.1144	58
10-2509.1145	58
10-2509.1146	58
10-2509.1149	58
10-2512.1142	58
10-2512.1144	58
10-2512.1145	58
10-2512.1146	58
10-2512.1149	58
10-2513.1142	58
10-2513.1144	58
10-2513.1145	58
10-2513.1146	58
10-2513.1149	58
10-2519.1052	58
10-2519.1054	58
10-2519.1055	58
10-2519.1056	58
10-2519.1059	58
10-2H24.2052	58
10-2H24.2054	58
10-2H24.2055	58
10-2H24.2056	58
10-2H24.2059	58
10-2H25.2042	58
10-2H25.2044	58
10-2H25.2045	58
10-2H25.2046	58
10-2H25.2049	58
14-810.002	17
14-810.902	17
14-810.910	33
14-810.918	33
61-9481.6	61
61-9481.6	63
700.005.0	62
700.006.0	62
704.000.2	13
704.000.2	15
704.000.4	13
704.000.4	15
704.000.5	13
704.000.5	15
704.000.6	13
704.000.6	15
704.000.7	13
704.000.7	15
704.001.2	13
704.001.2	15
704.001.4	13
704.001.4	15
704.001.5	13
704.001.5	15
704.001.6	13
704.001.6	15
704.001.7	13
704.001.7	15
704.002.2	14
704.002.2	16
704.002.4	14
704.002.4	16
704.002.5	14
704.002.5	16
704.002.6	14
704.002.6	16
704.002.7	14
704.002.7	16
704.003.2	14
704.003.2	16
704.003.4	14
704.003.4	16
704.003.5	14
704.003.5	16
704.003.6	14
704.003.6	16
704.003.7	14
704.003.7	16
704.006.2	14
704.006.2	16
704.006.218	32
704.006.218	33
704.006.4	14
704.006.4	16
704.006.418	32
704.006.418	33
704.006.5	14
704.006.5	16
704.006.518	32
704.006.518	33
704.006.6	14
704.006.6	16
704.006.618	32
704.006.618	33
704.006.7	14
704.006.7	16
704.006.718	32
704.006.718	33
704.007.2	14
704.007.2	16
704.007.4	14
704.007.4	16
704.007.5	14
704.007.5	16
704.007.6	14
704.007.6	16
704.007.7	14
704.007.7	16
704.009.0	18
704.009.2	18
704.009.4	18
704.009.5	18
704.009.6	18
704.009.7	18
704.010.0	18
704.010.2	18
704.010.4	18
704.010.5	18
704.010.6	18
704.010.7	18
704.011.0	19
704.011.018	35
704.011.2	19
704.011.218	35
704.011.4	19
704.011.418	35
704.011.5	19
704.011.518	35
704.011.6	19
704.011.618	35
704.011.8	19
704.011.818	35
704.012.0	19
704.012.018	35
704.012.2	19
704.012.218	35
704.012.4	19
704.012.418	35
704.012.5	19
704.012.518	35
704.012.6	19
704.012.618	35
704.012.7	19
704.012.718	35
704.013.0	19
704.013.2	19
704.013.4	19
704.013.5	19
704.013.6	19
704.013.7	19
704.020.2	12
704.020.4	12
704.020.5	12
704.020.6	12
704.020.7	12
704.021.2	12
704.021.4	12
704.021.5	12
704.021.6	12
704.021.7	12
704.022.2	12
704.022.4	12
704.022.5	12
704.022.6	12
704.022.7	12
704.024.2	12
704.024.4	12
704.024.5	12
704.024.6	12
704.024.7	12
704.029.2	20
704.029.4	20

Downloaded from DatasheetLib.com - datasheet search engine

Index from Typ-Nr.

Typ-Nr.	Page
704.029.5	20
704.029.6	20
704.029.7	20
704.030.2	20
704.030.4	20
704.030.5	20
704.030.6	20
704.030.7	20
704.032.2	20
704.032.218	36
704.032.4	20
704.032.418	36
704.032.5	20
704.032.518	36
704.032.6	20
704.032.618	36
704.032.7	20
704.032.718	36
704.033.2	20
704.033.4	20
704.033.5	20
704.033.6	20
704.033.7	20
704.039.0	18
704.039.2	18
704.039.4	18
704.039.5	18
704.039.6	18
704.039.7	18
704.040.0	18
704.040.2	18
704.040.4	18
704.040.5	18
704.040.6	18
704.040.7	18
704.041.0	18
704.041.018	34
704.041.2	18
704.041.218	34
704.041.4	18
704.041.418	34
704.041.5	18
704.041.518	34
704.041.6	18
704.041.618	34
704.041.8	18
704.041.818	34
704.042.0	18
704.042.018	34
704.042.2	18
704.042.218	34
704.042.4	18
704.042.418	34
704.042.5	18
704.042.518	34
704.042.6	18
704.042.618	34
704.042.7	18
704.042.718	34
704.043.0	19
704.043.2	19
704.043.4	19
704.043.5	19
704.043.6	19
704.043.7	19
704.059.2	20
704.059.4	20
704.059.5	20
704.059.6	20
704.059.7	20
704.060.2	20
704.060.4	20
704.060.5	20
704.060.6	20
704.060.7	20
704.062.2	20
704.062.218	36
704.062.4	20
704.062.418	36
704.062.5	20
704.062.518	36
704.062.6	20
704.062.618	36
704.062.7	20
704.062.718	36
704.063.2	20
704.063.4	20
704.063.5	20
704.063.6	20
704.063.7	20
704.064.2	21
704.066.2	21
704.070.0	23
704.070.2	23
704.070.4	23
704.070.5	23
704.071.0	23
704.071.2	23
704.071.210	37
704.071.218	37
704.071.4	23
704.071.410	37
704.071.418	37
704.071.5	23
704.072.0	23
704.072.2	23
704.072.4	23
704.072.5	23
704.073.0	23
704.073.2	23
704.073.210	37
704.073.4	23
704.073.5	23
704.074.2	22
704.074.210	37
704.074.3	22
704.075.2	22
704.075.218	37
704.075.3	22
704.075.310	37
704.075.318	37
704.076.0	22
704.078.0	22
704.084.2	24
704.084.4	24
704.084.5	24
704.084.6	24
704.084.7	24
704.086.2	24
704.086.4	24
704.086.5	24
704.086.6	24
704.086.7	24
704.092.0	30
704.093.0	30
704.093.010	43
704.093.018	43
704.093.0x28	46
704.094.0	30
704.095.0	30
704.095.010	43
704.095.018	43
704.095.0T28	46
704.095.0x28	46
704.096.0	30
704.097.0	30
704.097.010	43
704.097.018	43
704.097.0x28	46
704.098.0	30
704.099.0	30
704.099.010	43
704.099.018	43
704.099.0x28	46
704.100.0	28
704.100.0.12	28
704.101.0	28
704.101.0.12	28
704.101.010	41
704.101.010.12	41
704.101.018	41
704.101.018.12	41
704.101.018KN	44
704.101.0D.12	28
704.101.0KN	31
704.101.0x28	45
704.101.110KN	44
704.101.118KN	44
704.101.1KN	31
704.102.0	28
704.103.0	28
704.103.018	41
704.103.0x28	45
704.113.0	26
704.113.018	39
704.114.0	26
704.114.018	39
704.115.0	26
704.115.018	39
704.116.0	26
704.116.018	39
704.117.0	26
704.117.018	39
704.118.0	26
704.118.018	39
704.120.0	25
704.120.018	38
704.121.0	25
704.121.018	38

Downloaded from DatasheetLib.com - datasheet search engine

Index from Typ-Nr.

Typ-Nr.	Page
704.122.0	25
704.122.018	38
704.123.0	25
704.123.018	38
704.123.018KN	45
704.123.118KN	45
704.124.0	26
704.124.018	39
704.151.XXX	47
704.152.XXX	47
704.153.XXX	47
704.154.XXX	47
704.155.XXX	47
704.199.2	13
704.199.2	15
704.199.4	13
704.199.4	15
704.199.5	13
704.199.5	15
704.199.6	13
704.199.6	15
704.199.7	13
704.199.7	15
704.200.2	13
704.200.2	15
704.200.4	13
704.200.4	15
704.200.5	13
704.200.5	15
704.200.6	13
704.200.6	15
704.200.7	13
704.200.7	15
704.202.2	14
704.202.2	16
704.202.208	32
704.202.208	33
704.202.4	14
704.202.4	16
704.202.408	32
704.202.408	33
704.202.5	14
704.202.5	16
704.202.508	32
704.202.508	33
704.202.6	14
704.202.6	16
704.202.608	32
704.202.608	33
704.202.7	14
704.202.7	16
704.202.708	32
704.202.708	33
704.203.2	14
704.203.2	16
704.203.4	14
704.203.4	16
704.203.5	14
704.203.5	16
704.203.6	14
704.203.6	16
704.203.7	14
704.203.7	16
704.206.2	14
704.206.2	16
704.206.200	32
704.206.200	33
704.206.4	14
704.206.4	16
704.206.400	32
704.206.400	33
704.206.5	14
704.206.5	16
704.206.500	32
704.206.500	33
704.206.6	14
704.206.6	16
704.206.600	32
704.206.600	33
704.206.7	14
704.206.7	16
704.206.700	32
704.206.700	33
704.207.2	14
704.207.2	16
704.207.4	14
704.207.4	16
704.207.5	14
704.207.5	16
704.207.6	14
704.207.6	16
704.207.7	14
704.207.7	16
704.209.0	18
704.209.000	34
704.209.2	18
704.209.200	34
704.209.4	18
704.209.400	34
704.209.5	18
704.209.500	34
704.209.6	18
704.209.600	34
704.209.7	18
704.209.700	34
704.210.0	18
704.210.008	34
704.210.2	18
704.210.208	34
704.210.4	18
704.210.408	34
704.210.5	18
704.210.508	34
704.210.6	18
704.210.608	34
704.210.7	18
704.210.708	34
704.229.2	20
704.229.200	36
704.229.4	20
704.229.400	36
704.229.5	20
704.229.500	36
704.229.6	20
704.229.600	36
704.229.7	20
704.229.700	36
704.230.2	20
704.230.208	36
704.230.4	20
704.230.408	36
704.230.5	20
704.230.508	36
704.230.6	20
704.230.608	36
704.230.7	20
704.230.708	36
704.239.0	18
704.239.000	34
704.239.2	18
704.239.200	34
704.239.4	18
704.239.400	34
704.239.5	18
704.239.500	34
704.239.6	18
704.239.600	34
704.239.7	18
704.239.700	34
704.240.0	18
704.240.008	34
704.240.2	18
704.240.208	34
704.240.4	18
704.240.408	34
704.240.5	18
704.240.508	34
704.240.6	18
704.240.608	34
704.240.7	18
704.240.708	34
704.259.2	20
704.259.200	36
704.259.4	20
704.259.400	36
704.259.5	20
704.259.500	36
704.259.6	20
704.259.600	36
704.259.7	20
704.259.700	36
704.260.2	20
704.260.208	36
704.260.4	20
704.260.408	36
704.260.5	20
704.260.508	36
704.260.6	20
704.260.608	36
704.260.7	20
704.260.708	36
704.292.0	30
704.292.000	43
704.292.008	43
704.294.0	30
704.294.000	43
704.294.008	43
704.296.0	30
704.296.000	43

Downloaded from DatasheetLib.com - datasheet search engine

Index from Typ-Nr.

Typ-Nr.	Page
704.296.008	43
704.298.0	30
704.298.000	43
704.298.008	43
704.300.0	28
704.300.0.12	28
704.300.000	41
704.300.000.12	41
704.300.008	41
704.300.008.12	41
704.300.100KN	44
704.300.108KN	44
704.300.1KN	31
704.302.0	28
704.302.000	41
704.302.008	41
704.333.0	26
704.333.000	39
704.333.008	39
704.334.0	26
704.334.000	39
704.334.008	39
704.335.0	26
704.335.000	39
704.335.008	39
704.336.0	26
704.336.000	39
704.336.008	39
704.337.0	26
704.337.000	39
704.337.008	39
704.338.0	26
704.338.000	39
704.338.008	39
704.340.0	25
704.340.000	38
704.340.008	38
704.341.0	25
704.341.000	38
704.341.008	38
704.342.0	25
704.342.000	38
704.342.008	38
704.343.0	25
704.343.000	38
704.343.008	38
704.344.0	26
704.344.000	39
704.344.008	39
704.402.0	29
704.403.0	29
704.403.010	42
704.403.018	42
704.404.0	29
704.405.0	29
704.405.010	42
704.405.018	42
704.406.0	29
704.407.0	29
704.407.010	42
704.407.018	42
704.408.0	29
704.409.0	29
704.409.010	42
704.409.018	42
704.410.0	27
704.410.0.12	27
704.411.0	27
704.411.0.12	27
704.411.010	40
704.411.010.12	40
704.411.010KN	44
704.411.018	40
704.411.018.12	40
704.411.0B.12	27
704.411.110KN	44
704.411.118KN	44
704.411.1KN	31
704.412.0	27
704.413.0	27
704.413.010	40
704.413.018	40
704.502.0	29
704.502.000	42
704.502.008	42
704.504.0	29
704.504.000	42
704.504.008	42
704.506.0	29
704.506.000	42
704.506.008	42
704.508.0	29
704.508.000	42
704.508.008	42
704.510.0	27
704.510.0.12	27
704.510.000	40
704.510.000.12	40
704.510.008	40
704.510.008.12	40
704.510.100KN	44
704.510.108KN	44
704.510.1KN	31
704.512.0	27
704.512.000	40
704.512.008	40
704.600.0	69
704.600.0	73
704.600.1	69
704.600.1	73
704.600.1A	69
704.600.1A	73
704.600.2	69
704.600.2	74
704.600.3	69
704.600.3	74
704.600.5/A	69
704.600.5/A	74
704.600.6	69
704.600.6	73
704.600.7	69
704.600.7	73
704.600.9	69
704.600.9	73
704.601.0	72
704.601.01	73
704.601.2	72
704.601.21	73
704.601.4	72
704.601.41	73
704.601.5	72
704.601.51	73
704.601.6	72
704.601.61	73
704.601.8	72
704.601.81	73
704.601.9	72
704.601.91	73
704.602.0	67
704.602.0	72
704.602.2	67
704.602.2	72
704.602.4	67
704.602.4	72
704.602.5	67
704.602.5	72
704.602.6	67
704.602.6	72
704.602.7	67
704.602.7	72
704.602.7A01	67
704.602.7A01	72
704.603.2	64
704.603.2	65
704.603.4	64
704.603.4	65
704.603.5	64
704.603.5	65
704.603.6	64
704.603.6	65
704.603.7	64
704.603.7	65
704.608.7	64
704.608.7	65
704.608.9	64
704.608.9	65
704.609.0	67
704.609.0	72
704.609.7	67
704.609.7	72
704.609.9	67
704.609.9	72
704.609.9A01	67
704.609.9A01	72
704.610.7	68
704.610.9	68
704.611.2	68
704.611.4	68
704.611.5	68
704.611.7	68
704.630.1	64
704.631.1	72
704.632.1	72
704.633.1	67
704.642.0	64
704.642.1	64
704.642.2	64
704.701.0	71
704.701.0	76

Downloaded from DatasheetLib.com - datasheet search engine

Index from Typ-Nr.

Typ-Nr.	Page
704.701.4	71
704.701.4	76
704.701.6	71
704.701.6	76
704.702.0	75
704.702.2	70
704.702.2	70
704.702.2	75
704.702.4	70
704.702.4	70
704.702.4	75
704.702.5	70
704.702.5	70
704.702.5	75
704.702.6	70
704.702.6	70
704.702.6	75
704.702.7	70
704.702.7	70
704.702.7	75
704.702.9	75
704.703.2	66
704.703.4	66
704.703.5	66
704.703.6	66
704.703.7	66
704.706.7	66
704.707.7	71
704.707.7	75
704.708.7	66
704.708.9	66
704.709.7	70
704.709.7	75
704.709.9	70
704.709.9	75
704.730.0	66
704.730.1	66
704.731.0	75
704.731.1	75
704.732.0	75
704.732.1	75
704.733.0	70
704.733.1	70
704.741.0	75
704.741.8	75
704.742.0	75
704.742.8	75
704.743.0	70
704.743.8	70
704.8A230	56
704.8A231	56
704.8A232	56
704.8A233	56
704.8A234	55
704.8A235	55
704.8A236	55
704.8A237	55
704.8A238	55
704.8A239	55
704.8A250	56
704.8A251	56
704.8A252	56
704.8A253	56
704.8A254	55
704.8A255	55
704.8A270	56
704.8A271	56
704.8A272	56
704.8A639	55
704.8A730	56
704.8A731	56
704.900.1	52
704.900.1B	53
704.900.2	52
704.900.2B	53
704.900.3	52
704.900.3B	53
704.900.4	52
704.900.4B	53
704.900.5	52
704.900.5B	53
704.901.1	52
704.901.1/D	52
704.901.2	52
704.901.2/D	52
704.901.3	52
704.901.3/D	52
704.901.4	52
704.901.4/D	52
704.901.5	52
704.901.5/D	52
704.902.1	52
704.902.2	52
704.902.3	52
704.902.4	52
704.902.5	52
704.905.1	52
704.905.1/D	52
704.905.2	52
704.905.2/D	52
704.905.3	52
704.905.3/D	52
704.905.4	52
704.905.4/D	52
704.905.5	52
704.905.5/D	52
704.907.1	51
704.907.2	51
704.907.3	51
704.907.4	51
704.907.5	51
704.908.1	51
704.908.2	51
704.908.3	51
704.908.4	51
704.908.5	51
704.910.1	51
704.910.1	54
704.910.1B	53
704.910.2	51
704.910.2	54
704.910.2B	53
704.910.3	51
704.910.3	54
704.910.3B	53
704.910.4	51
704.910.4	54
704.910.4B	53
704.910.5	51
704.910.5	54
704.910.5B	53
704.911.1	51
704.911.1	54
704.911.1B	53
704.911.2	51
704.911.2	54
704.911.2B	53
704.911.3	51
704.911.3	54
704.911.3B	53
704.911.4	51
704.911.4	54
704.911.4B	53
704.911.5	51
704.911.5	54
704.911.5B	53
704.912.1	51
704.912.1	54
704.912.2	51
704.912.2	54
704.912.3	51
704.912.3	54
704.912.4	51
704.912.4	54
704.912.5	51
704.912.5	54
704.915.1	51
704.915.1	54
704.915.1/D	51
704.915.1/D	54
704.915.2	51
704.915.2	54
704.915.2/D	51
704.915.2/D	54
704.915.3	51
704.915.3	54
704.915.3/D	51
704.915.3/D	54
704.915.4	51
704.915.4	54
704.915.4/D	51
704.915.4/D	54
704.915.5	51
704.915.5	54
704.915.5/D	51
704.915.5/D	54
704.917.1	54
704.917.2	54
704.917.3	54
704.917.4	54
704.917.5	54
704.918.1	54
704.918.2	54
704.918.3	54
704.918.4	54
704.918.5	54
704.925.0	48
704.925.2	48
704.925.3	48

Downloaded from DatasheetLib.com - datasheet search engine

Index from Typ-Nr.

Typ-Nr.	Page
704.925.7	49
704.927.8	60
704.927.9	60
704.928.18	49
704.928.28	49
704.928.38	49
704.940.8	61
704.940.9	62
704.941.0	59
704.941.1	62
704.941.5	59
704.941.9	59
704.942.5	58
704.943.0	50
704.943.1	50
704.943.2	50
704.943.5	50
704.945.0	60
704.945.1	63
704.945.2	63
704.945.3	63
704.945.4	63
704.945.5	63
704.945.6	61
704.945.6	63
704.945.7	60
704.945.8	60
704.950.0	65
704.950.0	67
704.950.0	70
704.950.0	71
704.950.0	74
704.950.0	76
704.950.0B	65
704.950.0B	67
704.950.0B	70
704.950.0B	71
704.950.0B	74
704.950.0B	76
704.950.1	65
704.950.1	67
704.950.1	70
704.950.1	71
704.950.1	74
704.950.1	76
704.950.1/D	65
704.950.1/D	67
704.950.1/D	70
704.950.1/D	71
704.950.1/D	74
704.950.1/D	76
704.950.2/D	65
704.950.2/D	67
704.950.2/D	70
704.950.2/D	71
704.950.2/D	74
704.950.2/D	76
704.950.3	65
704.950.3	67
704.950.3	70
704.950.3	71
704.950.3	74
704.950.3	76
704.950.5	65
704.950.5	66
704.950.5	69
704.950.5	71
704.950.5	74
704.950.5	76
704.953.0	69
704.953.0	74
704.954.0	61
704.955.0	68
704.955.0	73
704.955.1	68
704.955.1	73
704.955.3	68
704.955.3	73
704.955.4	68
704.955.4	73
704.955.9	68
704.955.9	73
704.955.9E	68
704.955.9E	73
704.960.0	61
704.960.4	49
704.960.5	65
704.960.5	66
704.960.5	69
704.960.5	71
704.960.5	74
704.960.5	76
704.960.8	61
704.960.9	62
704.963.0	60
704.963.1	60
704.963.2	60
704.963.3	60
704.963.5	60
704.963.6	60
704.963.7	60
704.963.8	60
704.964.5	56
704.964.7	49
704.964.8	49
704.964.9	49
704.965.1	56
704.965.2	56
704.965.3	56
704.965.4	56
704.965.5	56
704.965.6	56
704.965.7	56
704.965.8	56
704.965.9	56
704.966.0	56
704.966.1	56
704.966.2	56
704.968.0	48
704.968.1	48
704.968.2	48
704.968.3	48
704.968.4	48
704.968.5	48
704.970.3	59
704.970.4	59
704.970.5	59
704.970.6	59
704.989.251	49
704.990.0	62
98-968	62

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

Downloaded from DatasheetLib.com - datasheet search engine