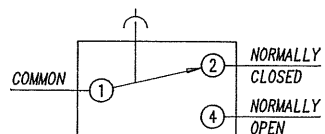


DRG. No. C 42651		SWITCH V4LS	
SHEET OF SHEETS			
DRAWN J.B.	DATE 20.9.95	APPROVED	
TRACED	SCALE 5:1	DRAWING OFFICE P. Vinnenga.	SALES DEPT.

SPECIFICATION

ACTUATING FORCE :- 2.5N (9.0ozf) MAX
 RELEASE FORCE :- 0.5N (1.8ozf) MIN
 FREE POSITION :- 12.9 (0.5) MAX
 OPERATING POSITION :- 11.7 ± 0.4 (0.46)
 MOVEMENT DIFFERENTIAL :- 0.6 (0.02) MAX
 OVERTRAVEL :- 2.2 (.09) MIN
 TOTAL TRAVEL :- 9.2 (.36) MIN

DIAGRAM OF CONNECTIONS



BURGESS MICRO SWITCH COMPANY LTD.
 DUKES WAY, TEAM VALLEY, GATESHEAD,
 TYNE & WEAR NE11 0UB

Tel. 091 4877171 Telex: 53229 Fax: (3) 091 4871610

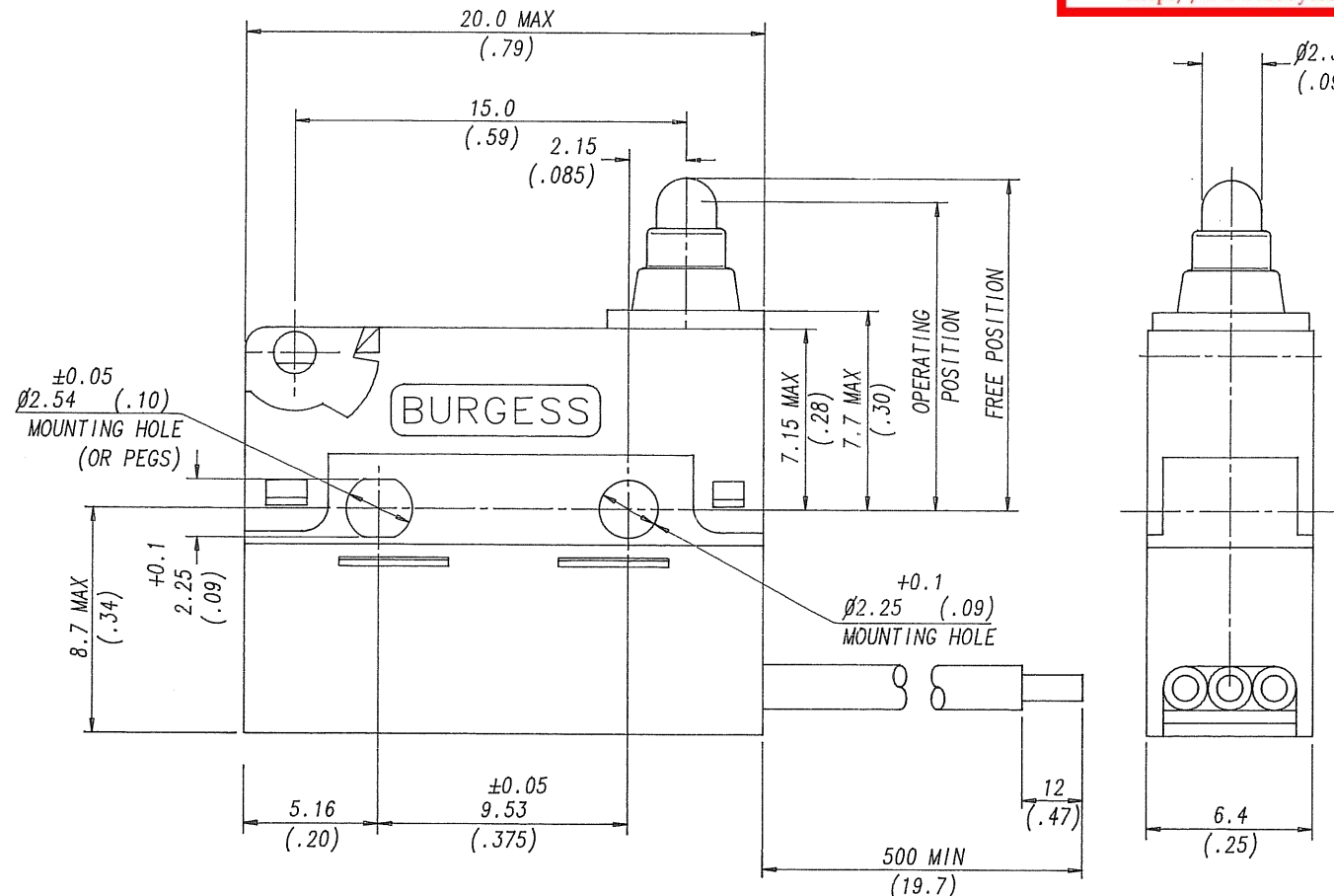
DO NOT SCALE

INSTALLATION DRAWING

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 PERMISSION OF BURGESS MICRO SWITCH CO. LTD.

THIRD ANGLE PROJECTION

勝特力電材超市-龍山店 886-3-5773766
 勝特力電材超市-光復店 886-3-5729570
 勝特力電子(上海) 86-21-34970699
 勝特力電子(深圳) 86-755-83298787
<http://www.100y.com.tw>



THIS DRAWING MUST ONLY BE AMENDED ON CAD SYSTEM

ALL DIMENSIONS SPECIFIED IN MILLIMETRES.
 TOLERANCES UNLESS STATED:- NO DECIMAL PLACE ± 0.5
 1 DECIMAL PLACE ± 0.25 2 DECIMAL PLACES ± 0.15
 ANGULAR $\pm 1^\circ$ INCH-OUNCE UNITS (IN BRACKETS)

DEGREE OF PROTECTION:-

WEIGHT:-

SWITCH
 V4LS

DRG. No.
 C 42651

SHEET OF SHEETS

V4L

Snap-action Microswitches

Subminiature

V4L

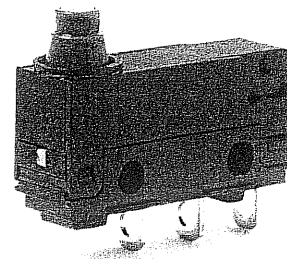
- Characteristics
- long overtravel of 2.2 mm minimum
 - sealed to (IP6K7) option
 - pre-wired option
 - solder terminals

Rating 250 VAC, 5 A

Dimensions (mm) 20 × 11 × 6.4

- Actuator
- plunger
 - plain lever
 - ice break lever

Approvals ENEC, UL, CSA



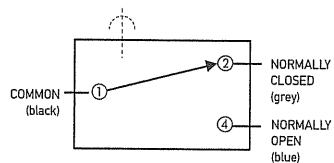
Preferred Range

Ordering Reference	Actuating Force (N) (ozf)		Sealing	Operating pos. (mm)	Terminal	Circuit	Actuator	Contacts	Electrical rating
V4LS	2.5	9.0	IP6K7	11.7 ± 0.4	Cable 500 mm	CO	Plunger	Ag	250 VAC, 5 A
V4LSA1	2.5	9.0	IP6K7	14.5 ± 0.8	Cable 500 mm	CO	Plain lever	Ag	250 VAC, 5 A
V4LSA2	2.0		IP6K7	16.5 ± 1.0	Cable 500 mm	CO	Plain lever	Ag	250 VAC, 5 A
V4LST7	2.5	9.0	IP6K7	11.7 ± 0.4	Solder	CO	Plunger	Ag	250 VAC, 5 A
V4LST7A1	2.5		IP6K7	14.5 ± 0.8	Solder	CO	Plain lever	Ag	250 VAC, 5 A
V4LST7A2	2.0		IP6K7	14.6 ± 1.0	Solder	CO	Plain lever	Ag	250 VAC, 5 A
V4LT7	2.4	8.6	no symbol	11.7 ± 0.4	Solder	CO	Plunger	Ag	250 VAC, 5 A

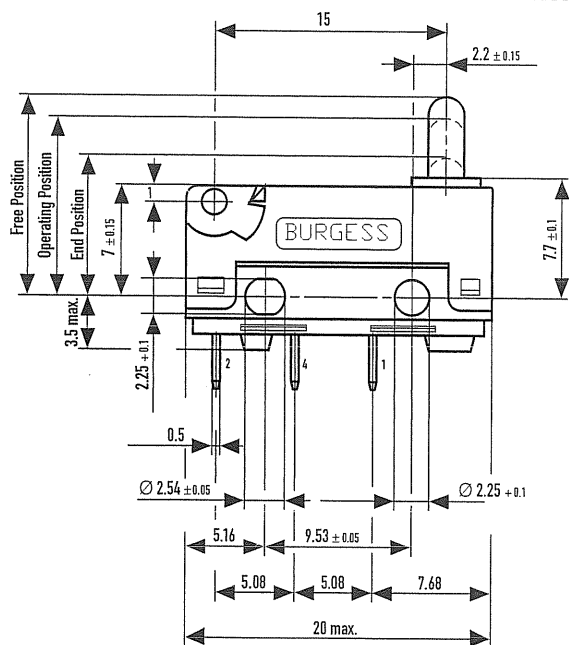
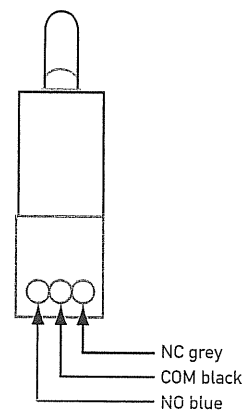
Specifications

Housing	Glass fibre reinforced polyamide (PA 6.6)
Plunger	Polyacetal (POM)
Mechanism	Snap-action coil spring mechanism with stainless steel spring. Change-over, normally closed or normally open
Contact carrier	Brass. Moving contact beryllium-copper
Contacts	Fine silver or gold crosspoint
Terminals	V4L – solder tags V4LS – PVC covered leads 0.5 m long
Temperature range °C	–40°C to +85°C
Mechanical life	V4L 2×10^6 cycles/min., V4LS 2×10^5 cycles/min. (impact free actuation)
Protection	V4L series IP40, V4LS series IP6K7, with encapsulated terminals
Mounting	Side mounting to a flat surface
Actuators	Plain lever, Ice break lever
Cowl	Silicon elastomer

Circuit diagram



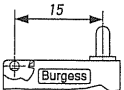
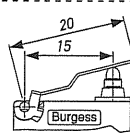
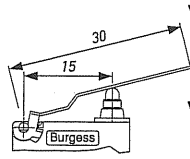
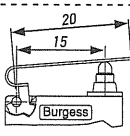
Dimensions



Recommended maximum electrical ratings

Voltage (VAC)	Resistive load (A) (Ag Contact)	Incandescent lamp load (A) (Ni1 Contact)	Inductive load (A) (Ag Contact)	Voltage (VDC) up to	Resistive load (A) (Ag Contact)	Incandescent lamp load (A) (Ni1 Contact)	Inductive load (A) (Ag Contact)
125	5	2	2	30	5	2	3
250	5	2	2	50	1	0.4	1
				75	0.75	0.3	0.75
				125	0.5	0.2	0.03
				250	0.25	0.1	0.03

Operating Characteristics

Actuator	Reference	Actuating Force		Release Force		Free Position		Operating Position		Movement Differential		Total overtravel		Overtravel	
		Maximum (N)	(ozf)	Minimum (N)	(ozf)	Maximum (mm)	(in)	(mm)	(in)	Maximum (mm)	(in)	Minimum (mm)	(in)	Minimum (mm)	(in)
 Plunger	V4LT7	2,4	8,60	0,4	1,44	12,9	0,507	11,7 ± 0,4	0,46 ± 0,012	0,9	0,023	9,2	0,36	2,2	0,09
	V4LST7	2,5	9,00	0,5	1,78	12,9	0,507	11,7 ± 0,4	0,46 ± 0,012	0,9	0,023	9,2	0,36	2,2	0,09
 A1 Lever	V4L...	2,4	8,60	0,4	1,44	14,5	0,57	12,6 ± 0,8	0,59 ± 0,03	1,0	0,04	9,6	0,38	2,2	0,09
	V4LS...	2,5	9,00	0,5	1,78	14,5	0,57	12,6 ± 0,8	0,59 ± 0,03	1,0	0,04	9,6	0,38	2,2	0,09
Width of lever 4.0 mm/0.16 in															
 A2 Lever	V4L...	1,5	5,70	0,3	1,08	16,5	0,65	13,5 ± 1,0	0,53 ± 0,04	1,3	0,05	9,6	0,38	2,9	1,1
	V4LS...	2	7,20	0,3	1,08	16,5	0,65	13,5 ± 1,0	0,53 ± 0,04	1,3	0,05	9,6	0,38	2,9	1,1
Width of lever 4.0 mm/0.16 in															
 F Lever	V4L...	For positions and forces of this actuator please contact Saia-Burgess													
	V4LS...														
Width of lever 4.0 mm/0.16 in															

Type coding key for standard products

Basic type	V4L	Example: V4L						S	T7	C2	A1	G	UL
Type of sealing	S	No symbol, unsealed Sealed IP6K7											
Terminals	T7	No symbol, pre-wired 500 mm with cable FLRY 0.5 mm ² and cable box (V4LS only)											
	T8	Solder 2.95 × 0.5 × 3.55 long PCB 0.8 × 0.5 × 4,0 long											
Circuit	C2	No symbol, change over											
	C4	Normally closed Normally open											
Actuators	A1	No symbol, without lever											
	A2	Plain lever 20.0 mm, fitted at the end opposite to plunger											
	F	Plain lever 30.0 mm, fitted at the end opposite to plunger Special lever F type 20.0 mm, fitted at the end opposite to plunger											
Contact Material	G	No symbol, Ag											
	X	Gold plate on silver (GP) Gold alloy on silver palladium crosspoint (AUX)											
	Other contact materials on special request												
Approvals	UL	No symbol, without approval											
	EN	UL and CSA approval											
	UN	ENEC approval only UL, CSA and ENEC approval											
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