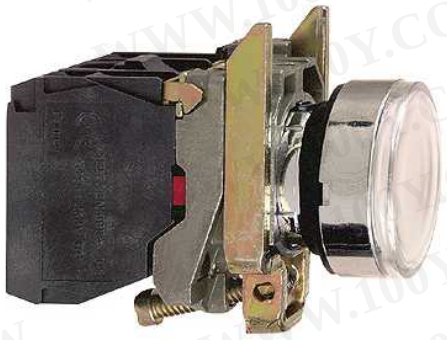
Product data sheet
Characteristics

XB4BW31M5
white flush complete illum pushbutton Ø22 spring return 1NO+1NC 220...240V



Main

Range of product	Harmony XB4
Product or component type	Complete illuminated pushbutton
Device short name	XB4
Bezel material	Chromium plated metal
Fixing collar material	Zamak
Mounting diameter	22 mm
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	Spring return
Operator profile	White flush
Operator additional information	With plain lens
Contacts type and composition	1 NO + 1 NC
Contacts operation	Slow-break
Connections - terminals	Screw clamp terminals : 1 x 0.22...2 x 2.5 mm² without cable end conforming to EN/IEC 60947-1 Screw clamp terminals : <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1
Light source	Protected LED
Bulb base	Integral LED
[Us] rated supply voltage	220...240 V AC, 50/60 Hz

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Complementary

Height	47 mm
Width	30 mm
Depth	57 mm
Terminals description ISO n°1	(13-14)NO (21-22)NC
Product weight	0.097 kg
Resistance to high pressure washer	7000000 Pa at 55 °C,distance: 0.1 m
Contacts usage	Standard contacts
Positive opening	With positive opening conforming to EN/IEC 60947-5-1 appendix K
Operating travel	4.3 mm (total travel) 2.6 mm (NO changing electrical state) 1.5 mm (NC changing electrical state)
Operating force	3.8 N 3.5 N (NC changing electrical state)
Mechanical durability	5000000 cycles
Tightening torque	0.8...1.2 N.m conforming to EN 60947-1
Shape of screw head	Slotted head compatible with flat Ø 5.5 mm screwdriver Slotted head compatible with flat Ø 4 mm screwdriver Cross head compatible with pozidriv No 1 screwdriver Cross head compatible with Philips no 1 screwdriver
Contacts material	Silver alloy (Ag/Ni)
Short circuit protection	10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1
[Ith] conventional free air thermal current	10 A conforming to EN/IEC 60947-5-1
[Ui] rated insulation voltage	600 V (degree of pollution: 3) conforming to EN/IEC 60947-1

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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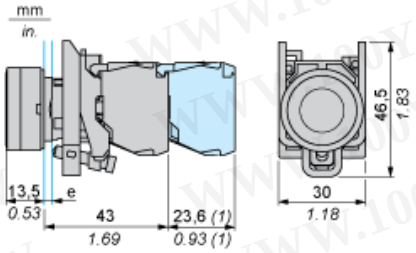
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-1
[Ie] rated operational current	1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1
Electrical durability	1000000 cycles, DC-13, 0.5 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.2 A at 110 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 4 A at 24 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 3 A at 120 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 2 A at 230 V, operating rate: 3600 cyc/h, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C
Electrical reliability IEC 60947-5-4	Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4
Signalling type	Steady
Supply voltage limits	195...264 V AC
Current consumption	14 mA
Service life	100000 h at rated voltage and 25 °C
Surge withstand	1 kV conforming to IEC 61000-4-5

Environment

Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Class of protection against electric shock	Class I conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529
NEMA degree of protection	NEMA 4X NEMA 13
IK degree of protection	IK05 conforming to IEC 50102
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14
Product certifications	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed
Vibration resistance	5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27
Resistance to fast transients	2 kV conforming to IEC 61000-4-4
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3
Resistance to electrostatic discharge	8 kV in free air (in insulating parts) conforming to IEC 61000-4-2 6 kV on contact (on metal parts) conforming to IEC 61000-4-2
Electromagnetic emission	Class B conforming to IEC 55011

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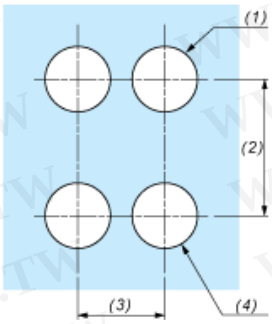
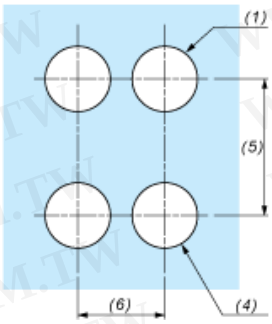
Dimensions



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e : clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.
(1) Additional row of contacts or double contact

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

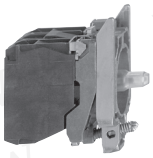
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
	

(1) Diameter on finished panel or support
(2) 40 mm min. / 1.57 in. min.
(3) 30 mm min. / 1.18 in. min.
(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_{0}^{+0.4}$ / 0.88 in. $_{0}^{+0.016}$)
(5) 45 mm min. / 1.78 in. min.
(6) 32 mm min. / 1.26 in. min.

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Control and signalling units Ø 22
Harmony® XB4, metal
Body/contact assemblies + light blocks with integral LED

To combine with:
heads, see pages 23 to 39
contacts, see page 44



ZB4 BW0●●3

Complete body/contact assemblies and light blocks *(1) (continued)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Light source	Supply voltage V	Type of contact N/O	Type of contact N/C	Colour of light source	Reference	Weight kg
Direct supply *(continued)*						
Integral LED Protected LED	∼ 230…240 (50/60 Hz)	1	–	White	**ZB4 BW0M11**	0.064
				Green	**ZB4 BW0M31**	0.064
				Red	**ZB4 BW0M41**	0.064
				Orange	**ZB4 BW0M51**	0.064
				Blue	**ZB4 BW0M61**	0.064
		–	1	White	**ZB4 BW0M12**	0.064
				Green	**ZB4 BW0M32**	0.064
				Red	**ZB4 BW0M42**	0.064
				Orange	**ZB4 BW0M52**	0.064
				Blue	**ZB4 BW0M62**	0.064
		2	–	White	**ZB4 BW0M13**	0.074
				Green	**ZB4 BW0M33**	0.074
				Red	**ZB4 BW0M43**	0.074
				Orange	**ZB4 BW0M53**	0.074
				Blue	**ZB4 BW0M63**	0.074
		1	1	White	**ZB4 BW0M15**	0.074
				Green	**ZB4 BW0M35**	0.074
				Red	**ZB4 BW0M45**	0.074
				Orange	**ZB4 BW0M55**	0.074
				Blue	**ZB4 BW0M65**	0.074

Other versions Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

(1) Can be fitted with additional contact blocks: see page 44.

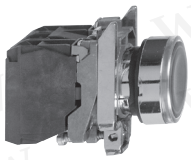
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Control and signalling units Ø 22

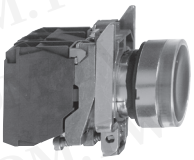
Harmony® XB4, metal

Illuminated pushbuttons, spring return, with integral LED

Assembly of other products using:
body/contact assemblies: see page 44
combined sub-assemblies: see page 50
accessories: see page 58



XB4 BW33B5



XB4 BW34G5

Illuminated pushbuttons with flush push *(1)*

Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Colour of push	Reference	Weight kg
Complete units - With plain lens							
	Integral LED	1	1	⎓ 24 50/60 Hz	White	**XB4 BW31B5** (ZB4 BW0B15 + ZB4 BW313)	0.097
					Green	**XB4 BW33B5** (ZB4 BW0B35 + ZB4 BW333)	0.097
					Red	**XB4 BW34B5** (ZB4 BW0B45 + ZB4 BW343)	0.097
					Orange	**XB4 BW35B5** (ZB4 BW0B55 + ZB4 BW353)	0.097
					Blue	**XB4 BW36B5** (ZB4 BW0B65 + ZB4 BW363)	0.097
				∿ 110...120 50/60 Hz	White	**XB4 BW31G5** (ZB4 BW0G15 + ZB4 BW313)	0.097
					Green	**XB4 BW33G5** (ZB4 BW0G35 + ZB4 BW333)	0.097
					Red	**XB4 BW34G5** (ZB4 BW0G45 + ZB4 BW343)	0.097
					Orange	**XB4 BW35G5** (ZB4 BW0G55 + ZB4 BW353)	0.097
					Blue	**XB4 BW36G5** (ZB4 BW0G65 + ZB4 BW363)	0.097
				∿ 230...240 50/60 Hz	White	**XB4 BW31M5** (ZB4 BW0M15 + ZB4 BW313)	0.097
					Green	**XB4 BW33M5** (ZB4 BW0M35 + ZB4 BW333)	0.097
					Red	**XB4 BW34M5** (ZB4 BW0M45 + ZB4 BW343)	0.097
					Orange	**XB4 BW35M5** (ZB4 BW0M55 + ZB4 BW353)	0.097
					Blue	**XB4 BW36M5** (ZB4 BW0M65 + ZB4 BW363)	0.097

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 18.

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