



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Main

Range of product	Harmony XB4
Product or component type	Complete illuminated push-button
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	Green 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 mm ² without cable end conforming to EN/IEC 60947-1 Screw clamp terminals : ≤ 2 x 1.5 mm ² with cable end conforming to EN/IEC 60947-1
Light source	Protected LED
Bulb base	Integral LED
[Us] rated supply voltage	24 V AC/DC, 50/60 Hz

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

[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	$\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4 $\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4
Signalling type	Steady
Supply voltage limits	21.6...26.4 V AC 19.2...30 V DC
Current consumption	18 mA
Service life	100000 h at rated voltage and 25 °C
Surge withstand	1 kV conforming to IEC 61000-4-5

Environment

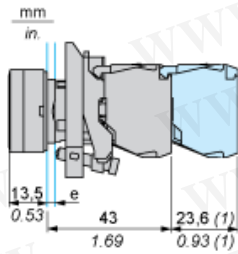
Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-25...70 °C
Class of protection against electric shock	Class I conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529
NEMA degree of protection	NEMA 4X NEMA 13
IK degree 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

Contractual warranty

Period	18 months
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Dimensions



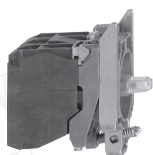
e : clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.
(1) Additional row of contacts or double contact

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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
<p>(1) Diameter on finished panel or support (2) 40 mm min. / 1.57 in. min. (3) 30 mm min. / 1.18 in. min. (4) $\varnothing 22.5 \text{ mm} / 0.89 \text{ in.}$ recommended ($\varnothing 22.3 \text{ mm}_0^{+0.4} / 0.88 \text{ in.}_0^{+0.016}$) (5) 45 mm min. / 1.78 in. min. (6) 32 mm min. / 1.26 in. min.</p>	

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	Type of contact		Colour of light source	Reference	Weight
	V					kg
		N/O	N/C			
Direct supply (continued)						
Integral LED	~ 230...240 (50/60 Hz)	1	–	White	ZB4 BW0M11	0.064
Protected LED				Green	ZB4 BW0M31	0.064
				Red	ZB4 BW0M41	0.064
				Orange	ZB4 BW0M51	0.064
				Blue	ZB4 BW0M61	0.064
				–	1	–
				Green	ZB4 BW0M32	0.064
				Red	ZB4 BW0M42	0.064
				Orange	ZB4 BW0M52	0.064
				Blue	ZB4 BW0M62	0.064
				2	–	White
				Green	ZB4 BW0M33	0.074
				Red	ZB4 BW0M43	0.074
				Orange	ZB4 BW0M53	0.074
				Blue	ZB4 BW0M63	0.074
				1	1	White
				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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References

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

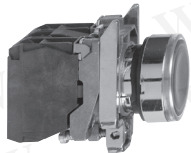
Control and signalling units Ø 22

Harmony® XB4, metal

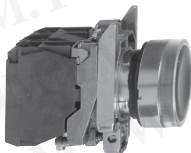
Illuminated pushbuttons, spring return, with integral LED

Illuminated pushbuttons with flush push (1)						
Screw clamp terminal connections (Schneider Electric anti-retightening system)						
Shape of head	Description	Type of contact	Supply voltage	Colour of push	Reference	Weight
		 N/O	 N/C	V		kg

Complete units - With plain lens



XB4 BW33B5



XB4 BW34G5

Shape of head	Description	Type of contact	Supply voltage	Colour of push	Reference	Weight	
Integral LED	Protected 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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