Harmony XB4, Illuminated selector switch, metal, red, Ø22, 2 positions, stay put, 24 V AC/DC, 1 NO + 1 NC

XB4BK124B5

Main

Range of product Product or component type Illuminated selector switch Device short name XB4 Bezel material Chromium plated metal Fixing collar material Zamak Head type Standard Mounting diameter 22 mm Sale per indivisible quantity 1 Shape of signaling unit head Round Type of operator Operator profile Red standard handle Operator position information 2 positions 90° Contacts type and composition 1 NO + 1 NC Contact operation Slow-break Connections - terminals Screw clamp terminals, >= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Light source Protected LED Bulb base Integral LED [Us] rated supply voltage 24 V AC/DC at 50/60 Hz	·····	
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Type of operator stay put Operator profile Red standard handle Operator position information 2 positions 90° Contacts type and composition 1 NO + 1 NC Contact operation Slow-break Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Light source Protected LED Bulb base Integral LED	Sale per indivisible quantity	1
Operator profile Red standard handle Operator position information 2 positions 90° Contacts type and composition 1 NO + 1 NC Contact operation Slow-break Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Light source Protected LED Bulb base Integral LED	Shape of signaling unit head	Round
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Contact operation Slow-break Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Light source Protected LED Integral LED	Operator profile	Red standard handle
Contact operation Slow-break Connections - terminals Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Light source Protected LED Integral LED	Operator position information	2 positions 90°
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Screw clamp terminals, >= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1 Light source Protected LED Bulb base Integral LED	Contact operation	Slow-break
Bulb base Integral LED	Connections - terminals	
	Light source	Protected LED
[Us] rated supply voltage 24 V AC/DC at 50/60 Hz	Bulb base	Integral LED
	[Us] rated supply voltage	24 V AC/DC at 50/60 Hz

Complementary

Height	47 mm
Width	30 mm
Depth	68 mm
Terminals description ISO n°1	(13-14)NO (21-22)NC
Net weight	0.111 kg
Resistance to high pressure washer	7000000 Pa at 55 °C, distance : 0.1 m
Contacts usage	Standard contacts
Positive opening	With conforming to EN/IEC 60947-5-1 appendix K

Operating torque	0.14 N.m NO changing electrical state
Mechanical durability	1000000 cycles
Tightening torque	0.81.2 N.m conforming to EN 60947-1
Shape of screw head	Cross compatible with Philips no 1 screwdriver Cross compatible with pozidriv No 1 screwdriver Slotted compatible with flat Ø 4 mm screwdriver Slotted compatible with flat Ø 5.5 mm 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 (pollution degree 3) conforming to EN 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to EN 60947-1
[le] rated operational current	3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1 6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1 0.1 A at 600 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 0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1 1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1
Electrical durability	1000000 cycles, AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN 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 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 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 60947-5-1 appendix C 1000000 cycles, DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN 60947-5-1 appendix C
Electrical reliability	Λ < 10exp(-6) at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4 Λ < 10exp(-8) at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4
Signalling type	Steady
Supply voltage limits	19.230 V DC 21.626.4 V AC
Current consumption	18 mA
Service life	100000 h at rated voltage and 25 °C
Surge withstand	1 kV conforming to IEC 61000-4-5
Device presentation	Complete product
Environment	
Protective treatment	тн
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-4070 °C
Electrical shock protection class	Class I conforming to IEC 60536
IP degree of protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K
NEMA degree of protection	NEMA 13 NEMA 4X
IK degree of protection	IK06 conforming to IEC 50102
Standards	EN/IEC 60947-5-1 JIS C8201-5-1 EN/IEC 60947-5-4 CSA C22.2 No 14 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-1

Product certifications LRSC (Lloyis register of shipping) UL CSA GRA GRA DNV Vibration resistance \$ 30 (ft e 2500 Hz) conforming to IEC 80088-2-8 Shock resistance \$ 30 (ft e 2500 Hz) conforming to IEC 80088-2-8 Shock resistance to fast transients 2 kV conforming to IEC 81000-4-4 Resistance to fast transients 2 kV conforming to IEC 81000-4-3 Resistance to electromagnetic fields Resistance to electrostatic discharge \$ kV in confact (on metal parts) conforming to IEC 81000-4-2 \$ kV in the air (in insulating parts) conforming to IEC 81000-4-2 \$ kV in the air (in insulating parts) conforming to IEC 81000-4-2 Electromagnetic emission Class B conforming to IEC 55011 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 11 1 g Package 1 Height \$ 8.6 cm Package 1 Length \$ 3.3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 \$ 5 Package 2 Height \$ 655 g Package 2 Height \$ 8.6 cm Package 2 Height \$ 8.6 cm Package 2 Weight \$ 955 g Package 2 Weight \$ 955 g Package 2 Weight \$ 905 g Package 2 Weight \$ 905 g Package 3 Weight \$ 11.568 kg Package 3 Weight \$ 11.568 kg Package 3 Height \$ 30 cm Package 3 Height \$ 40 cm Offer Sustainability Sustainable offer status \$ Green Premium product REACh Regulation REACh Declaration Mercury free Yes ROHS exemption information Wers		JIS C8201-1
CSA GL DNV	Product certifications	
Note		CSA
Vibration resistance 5 gn (f= 2500 Hz) conforming to IEC 60068-2-6 Shock resistance 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 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 Resistance to electrostatic discharge 6 kV on contact (on metal parts) conforming to IEC 61000-4-2 discharge 8 kV in fee air (in insulating parts) conforming to IEC 61000-4-2 Electromagnetic emission Class B conforming to IEC 55011 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 11 g Package 1 Height 8 6 cm Package 1 Height 9 5 cm Package 1 Length 3 3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 BB1 Number of Units in Package 2 Fackage 2 Height 8 6 cm Package 2 Height 8 6 cm Package 2 Height 8 7 cm Package 2 Height 8 8 cm Package 2 Height 9 6 cm Package 2 Height 9 6 cm Package 3 Height 9 7 cm Package 4 Height 9 7 cm Package 5 Height 9 0		
Shock resistance 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60088-2:27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60088-2:27 Resistance to fast transients 2 kV conforming to IEC 61000-4-4 Resistance to electromagnetic fields Resistance to electromagnetic at 10 V/m conforming to IEC 61000-4-3 Resistance to electrostatic discharge 6 kV on contact (on metal parts) conforming to IEC 61000-4-2 8 kV in free air (in insulating parts) conforming to IEC 61000-4-2 Electromagnetic emission Class B conforming to IEC 55011 Packing Units Unit Type of Package 1 PoE Number of Units in Package 1 Package 1 Weight 11 g Package 1 Height 5.2 cm Package 1 Length 3.3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 BB1 Number of Units in Package 2 BB1 Number of Package 2 Be1 Number of Units in Package 3 B0 cm Package 2 Height 8.6 cm Package 2 Height 9.85 cm Package 2 Length 3.3 cm Unit Type of Package 3 Number of Units in Package 3 100 Package 2 Length 3.3 cm Unit Type of Package 3 Number of Units in Package 4 Number of Units in Package 4 Number of Units in Package 5 Number of Units in Package 6 Number of Units in Package 6 Number of Units in Package 7 Number of Units in Package 1		
S0 gin (duration = 11 ms) for half sine wave acceleration conforming to IEC 60088-2:27 Resistance to fast transients 2 kV conforming to IEC 61000-4-4 Resistance to electromagnetic fields Resistance to electrostatic 6 kV on contact (on metal parts) conforming to IEC 81000-4-2 8 kV in free air (in resulating parts) conforming to IEC 81000-4-2 Electromagnetic emission Class B conforming to IEC 55011 Packing Units Unit Type of Package 1 Package 1 Weight 11 g Package 1 Height 8 6 cm Package 1 Height 5 2 cm Package 1 Length 3 3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 BB1 Number of Units in Package 2 BB1 Number of Package 2 BB1 Number of Package 3 Number of Units in Package 3 S0 5 S0 5 S0 8 Number of Units in Package 3 Number of Units in Package 4 Number of Un		
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B kV in free air (in insulating parts) conforming to IEC 61000-4-2 Electromagnetic emission Class B conforming to IEC 55011 Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 Package 1 Weight Package 1 Height Package 1 Height Package 2 Height Package 2 Length S5 cm Package 2 Weight Package 2 Height S55 g Package 2 Length S55 g Package 2 Length S6 cm Package 2 Length S7 cm Package 2 Length S8 cm Package 3 Weight Package 3 S03 Number of Units in Package 3 Number of Units in Package 3 S03 Number of Units in Package 3 S05 Package 3 Weight S0 cm Package 3 Weight S0 cm Package 3 Length 40 cm Offer Sustainability Sustainabile offer status Green Premium product REACh Regulation REACh Declaration REACh Free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	_	10 V/m conforming to IEC 61000-4-3
Packing Units Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 111 g Package 1 Height 8.6 cm Package 1 width 5.2 cm Package 1 Length 3.3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 BB1 Number of Units in Package 2 Fackage 2 Weight 555 g Package 2 Weight 8.6 cm Package 2 Height 8.6 cm Package 2 Height 8.6 cm Package 2 Length 3.3 cm Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 Height 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Directive Yes		
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Unit Type of Package 1 PCE Number of Units in Package 1 1 Package 1 Weight 111 g Package 1 width 5.2 cm Package 1 Length 3.3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 555 g Package 2 Height 8.6 cm Package 2 Length 3.3 cm Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh Free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope)		
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Package 1 width 5.2 cm Package 1 Length 3.3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 555 g Package 2 Height 8.6 cm Package 2 width 26.5 cm Package 2 Length 3.3 cm Unit Type of Package 3 503 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	Package 1 Weight	111 g
Package 1 Length 3.3 cm Unit Type of Package 2 BB1 Number of Units in Package 2 5 Package 2 Weight 555 g Package 2 Height 8.6 cm Package 2 Length 26.5 cm Package 2 Length 3.3 cm Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 Height 30 cm Package 3 width 30 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU ROHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU ROHS Declaration Mercury free Yes	Package 1 Height	8.6 cm
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Number of Units in Package 2 5 Package 2 Weight 555 g Package 2 Height 8.6 cm Package 2 width 26.5 cm Package 2 Length 3.3 cm Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU ROHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 1 Length	3.3 cm
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Package 2 Height 8.6 cm Package 2 width 26.5 cm Package 2 Length 3.3 cm Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Number of Units in Package 2	5
Package 2 width 26.5 cm Package 2 Length 3.3 cm Unit Type of Package 3 503 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 2 Weight	555 g
Package 2 Length 3.3 cm Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 2 Height	8.6 cm
Unit Type of Package 3 S03 Number of Units in Package 3 100 Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 2 width	26.5 cm
Number of Units in Package 3 Package 3 Weight Package 3 Height Package 3 width Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 2 Length	3.3 cm
Package 3 Weight 11.566 kg Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Unit Type of Package 3	S03
Package 3 Height 30 cm Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Number of Units in Package 3	100
Package 3 width 30 cm Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 3 Weight	11.566 kg
Package 3 Length 40 cm Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 3 Height	30 cm
Offer Sustainability Sustainable offer status Green Premium product REACh Regulation REACh Declaration REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 3 width	30 cm
Sustainable offer status Green Premium product REACh Regulation REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Package 3 Length	40 cm
Sustainable offer status Green Premium product REACh Regulation REACh free of SVHC Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	Office County in the 199	
REACh Regulation REACh Declaration Yes EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration Mercury free Yes	<u>-</u>	Canada Danasinas annakust
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EU RoHS Declaration Mercury free Yes		
	EU RoHS Directive	
RoHS exemption information Yes	Mercury free	Yes
	RoHS exemption information	Yes
China RoHS Regulation China RoHS declaration	China RoHS Regulation	China RoHS declaration
Environmental Disclosure Product Environmental Profile	Environmental Disclosure	Product Environmental Profile
Circularity Profile End of Life Information	Circularity Profile	End of Life Information

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

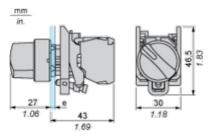
Warranty	18 months
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Product data sheet

XB4BK124B5

Dimensions Drawings

Dimensions



e : clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

Product data sheet

XB4BK124B5

Mounting and Clearance

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

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.