

# Product data sheet

Specifications



Harmony, 22mm push button, black flush, spring return, 1 NO, unmarked

XB4BA21

**Product availability:** Stock - Normally stocked in distribution facility

## Main

Range of Product	Harmony XB4
Device short name	XB4
Product or Component Type	Push-button
Bezel material	Chromium plated metal
Fixing collar material	Zamak
Mounting diameter	0.9 in (22.5 mm)
Sale per indivisible quantity	1
Shape of signaling unit head	Round
Type of operator	spring return
Operator profile	Black flush, unmarked
Head type	Standard
Contacts type and composition	1 NO
Contact operation	Slow-break
Connections - terminals	Screw clamp terminals, <= 2 x 1.5 mm <sup>2</sup> with cable end IEC 60947-1 Screw clamp terminals, 1 x 0.22...2 x 2.5 mm <sup>2</sup> without cable end IEC 60947-1

## Complementary

Height	1.9 in (47 mm)
Width	1.2 in (30 mm)
Depth	2.05 in (52 mm)
Terminals description ISO n°1	(13-14)NO
Net Weight	0.18 lb(US) (0.08 kg)
Resistance to high pressure washer	1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m
Contacts usage	Standard contacts
Positive opening	Without
Operating travel	0.1 in (2.6 mm) NO changing electrical state) 0.2 in (4.3 mm) total travel)
Operating force	3.8 N NO changing electrical state
Mechanical durability	10000000 cycles
Tightening torque	7.08...10.6 lbf.in (0.8...1.2 N.m) IEC 60947-1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Shape of screw head</b>	Cross Philips no 1 Cross pozidriv No 1 Slotted flat Ø 4 mm Slotted flat Ø 5.5 mm
<b>Contacts material</b>	Silver alloy (Ag/Ni)
<b>Short-circuit protection</b>	10 A cartridge fuse gG IEC 60947-5-1
<b>[I<sub>th</sub>] conventional free air thermal current</b>	10 A IEC 60947-5-1
<b>[U<sub>i</sub>] rated insulation voltage</b>	600 V 3)IEC 60947-1
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	6 kV IEC 60947-1
<b>[I<sub>e</sub>] rated operational current</b>	3 A 240 V, AC-15, A600 IEC 60947-5-1 6 A 120 V, AC-15, A600 IEC 60947-5-1 0.1 A 600 V, DC-13, Q600 IEC 60947-5-1 0.27 A 250 V, DC-13, Q600 IEC 60947-5-1 0.55 A 125 V, DC-13, Q600 IEC 60947-5-1 1.2 A 600 V, AC-15, A600 IEC 60947-5-1
<b>Electrical durability</b>	1000000 cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C 1000000 cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C 1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C
<b>Electrical reliability</b>	Λ < 10 <sup>exp(-6)</sup> 5 V 1 mA in clean environment IEC 60947-5-4 Λ < 10 <sup>exp(-8)</sup> 17 V 5 mA in clean environment IEC 60947-5-4
<b>Device presentation</b>	Complete product

## Environment

<b>Protective treatment</b>	TH
<b>Ambient Air Temperature for Storage</b>	-40...158 °F (-40...70 °C)
<b>Ambient Air Temperature for Operation</b>	-40...158 °F (-40...70 °C)
<b>Overvoltage category</b>	Class I conforming to IEC 60536
<b>IP degree of protection</b>	IP66 IEC 60529 IP67 IP69 IP69K
<b>NEMA degree of protection</b>	NEMA 13 NEMA 4X
<b>IK degree of protection</b>	IK06 conforming to IEC 50102
<b>Standards</b>	CSA C22.2 No 14 IEC 60947-1 IEC 60947-5-4 IEC 60947-5-1 IEC 60947-5-5 UL 508 JIS C8201-5-1 JIS C8201-1
<b>Product Certifications</b>	CSA LROS (Lloyds register of shipping) BV UL Listed DNV
<b>Vibration resistance</b>	5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	30 gn 18 ms) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27

## Ordering and shipping details

<b>Category</b>	US10CS222468
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Discount Schedule	0CS2
GTIN	3389110886948
Returnability	Yes
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.465 in (8.800 cm)
Package 1 Width	1.339 in (3.400 cm)
Package 1 Length	2.126 in (5.400 cm)
Package weight(Lbs)	2.822 oz (80.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	150
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	27.461 lb(US) (12.456 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	1200
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	238.426 lb(US) (108.148 kg)

## Contractual warranty

Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) **1**

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Pro-active compliance (Product out of EU RoHS legal scope)**

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](#)**

## Use Again

### Repack and remanufacture

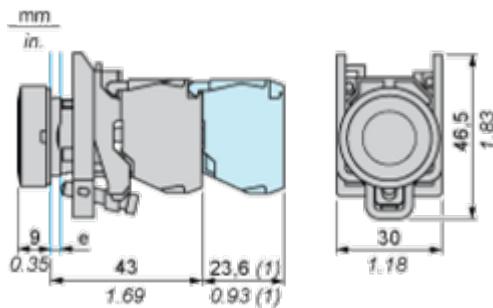
Circularity Profile [End of Life Information](#)

Take-back **No**

WEEE Label **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

## Dimensions Drawings

## Dimensions



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

(1) Additional row of contacts or double contact.

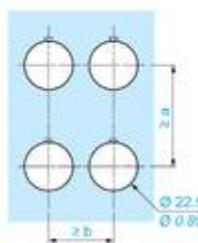
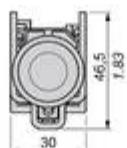
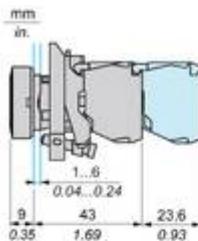
## Mounting and Clearance

**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
 <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) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sub>0</sub><sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>) (5) 45 mm min. / 1.78 in. min. (6) 32 mm min. / 1.26 in. min.</p>	 <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) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <sub>0</sub><sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>) (5) 45 mm min. / 1.78 in. min. (6) 32 mm min. / 1.26 in. min.</p>

## Technical Illustration

## Dimensions



	a (mm)	a (in.)	b (mm)	b (in.)
ZBE***** ZBV*****	40	1.57	30	1.18
ZBE*****3 ZBV*****3	45	1.77	32	1.26
ZBE*****4 ZBV*****4	40	1.57	30	1.18
ZBE*****5 ZBV*****5	50	1.97	30	1.18
ZBE*****9 ZBV*****9	40	1.57	30	1.18
ZBRT* ZBRV1	40	1.57	30	1.18

## Offer Marketing Illustration

## Product benefits / Features

## Technical Benefits

## Harmony XB4

Conformity with IEC, UL, CSA, CCC EAC, and JIS standards, as well as CE marking and marine approvals

Up to IP66, 67, 69, 69K, and type 4X protection ratings

High vibration resistance with shake-proof terminal screws

Operating temperature from -40°C to 70°C

Shock protection level up to IK06

Secure switching of inductive or heavy DC loads directly – 100 000 operations at 10A, 24V dc

## Offer Marketing Illustration

## Product benefits / Features

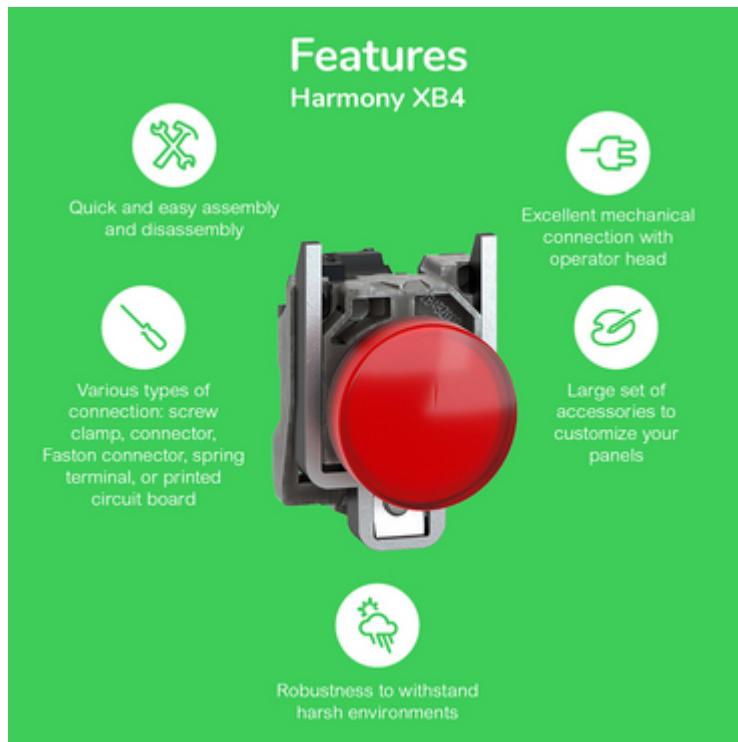


Image of product / Alternate images

Alternative

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