

# Product datasheet

Specifications



Illuminated push button, metal, flush, green, Ø22, spring return, 1 NO + 1 NC 24 V AC/DC

Local distributor code: 23706459 XB4BW33B5

## Main

|                                 |  |
|---------------------------------|--|
| Range of product                | Harmony XB4  |
| Product or component type       | 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  |
| Head type                       | Standard   |
| 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  |
| Contact operation               | Slow-break   |
| Connections - terminals         | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals, $1 \times 0.22 \dots 2 \times 2.5 \text{ mm}^2$ 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   |

## Complementary

|                                    |  |
|------------------------------------|--|
| Height                             | 47 mm  |
| Width                              | 30 mm  |
| Depth                              | 57 mm  |
| Terminals description ISO n°1      | (21-22)NC<br>(13-14)NO                         |
| Net 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 conforming to EN/IEC 60947-5-1 appendix K |

|   |   |
|---|---|
| <b>Operating travel</b>                                       | 1.5 mm (NC changing electrical state)<br>2.6 mm (NO changing electrical state)<br>4.3 mm (total travel)   |
| <b>Operating force</b>  | 3.5 N NC changing electrical state<br>3.8 N   |
| <b>Mechanical durability</b>                                  | 10000000 cycles   |
| <b>Tightening torque</b>                                      | 0.8...1.2 N.m conforming to EN 60947-1  |
| <b>Shape of screw head</b>                                    | Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver<br>Slotted compatible with flat Ø 4 mm screwdriver<br>Slotted compatible with flat Ø 5.5 mm screwdriver   |
| <b>Contacts material</b>                                      | Silver alloy (Ag/Ni)  |
| <b>Short-circuit protection</b>                               | 10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1  |
| <b>[I<sub>th</sub>] conventional free air thermal current</b> | 10 A conforming to EN/IEC 60947-5-1   |
| <b>[U<sub>i</sub>] rated insulation voltage</b>               | 600 V (pollution degree 3) conforming to EN/IEC 60947-1   |
| <b>[U<sub>imp</sub>] rated impulse withstand voltage</b>      | 6 kV conforming to EN/IEC 60947-1   |
| <b>[I<sub>e</sub>] rated operational current</b>              | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to EN/IEC 60947-5-1  |
| <b>Electrical durability</b>                                  | 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<br>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<br>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<br>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<br>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 |
| <b>Electrical reliability</b>                                 | $\Lambda < 10\exp(-6)$ at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4   |
| <b>Signalling type</b>  | Steady  |
| <b>Current consumption</b>                                    | 18 mA   |
| <b>Service life</b>   | 100000 h at rated voltage and 25 °C   |
| <b>Surge withstand</b>  | 1 kV conforming to IEC 61000-4-5  |
| <b>Supply voltage limits</b>                                  | 19.2...30 V DC<br>21.6...26.4 V AC  |
| <b>Device presentation</b>                                    | Complete product  |

## Environment

|  |   |
|--|---|
| <b>Protective treatment</b>                  | TH  |
| <b>Ambient air temperature for storage</b>   | -40...70 °C   |
| <b>Ambient air temperature for operation</b> | -40...70 °C   |
| <b>Electrical shock protection class</b>     | Class I conforming to IEC 60536                       |
| <b>IP degree of protection</b>               | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K |
| <b>NEMA degree of protection</b>             | NEMA 13<br>NEMA 4X                                    |
| <b>IK degree of protection</b>               | IK06 conforming to IEC 50102                          |
| <b>Standards</b>                             | EN/IEC 60947-5-1<br>JIS C8201-5-1                     |

EN/IEC 60947-5-5  
 CSA C22.2 No 14  
 EN/IEC 60947-5-4  
 EN/IEC 60947-1  
 UL 508  
 JIS C8201-1

|  |  |
|--|--|
| <b>Product certifications</b>                | LROS (Lloyds register of shipping)<br>DNV<br>BV<br>GL<br>UL listed<br>CSA  |
| <b>Vibration resistance</b>                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6   |
| <b>Shock resistance</b>                      | 30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |
| <b>Resistance to fast transients</b>         | 2 kV conforming to IEC 61000-4-4   |
| <b>Resistance to electromagnetic fields</b>  | 10 V/m conforming to IEC 61000-4-3   |
| <b>Resistance to electrostatic discharge</b> | 6 kV on contact (on metal parts) conforming to IEC 61000-4-2<br>8 kV in free air (in insulating parts) conforming to IEC 61000-4-2   |
| <b>Electromagnetic emission</b>              | Class B conforming to IEC 55011  |

## Packing Units

|                                     |            |
|-------------------------------------|------------|
| <b>Unit Type of Package 1</b>       | PCE        |
| <b>Number of Units in Package 1</b> | 1          |
| <b>Package 1 Weight</b>             | 96.58 g    |
| <b>Package 1 Height</b>             | 3.5 cm     |
| <b>Package 1 width</b>              | 5.5 cm     |
| <b>Package 1 Length</b>             | 8.5 cm     |
| <b>Unit Type of Package 2</b>       | P06        |
| <b>Number of Units in Package 2</b> | 1200       |
| <b>Package 2 Weight</b>             | 127.352 kg |
| <b>Package 2 Height</b>             | 75 cm      |
| <b>Package 2 width</b>              | 80 cm      |
| <b>Package 2 Length</b>             | 60 cm      |
| <b>Unit Type of Package 3</b>       | S03        |
| <b>Number of Units in Package 3</b> | 150        |
| <b>Package 3 Weight</b>             | 14.919 kg  |
| <b>Package 3 Height</b>             | 30 cm      |
| <b>Package 3 width</b>              | 30 cm      |
| <b>Package 3 Length</b>             | 40 cm      |

## Offer Sustainability

|                                   |   |
|-----------------------------------|---|
| <b>Sustainable offer status</b>   | Green Premium product   |
| <b>REACH Regulation</b>           | <a href="#">REACH Declaration</a>   |
| <b>REACH free of SVHC</b>         | Yes   |
| <b>EU RoHS Directive</b>          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| <b>Mercury free</b>               | Yes   |
| <b>RoHS exemption information</b> | <a href="#">Yes</a>   |
| <b>China RoHS Regulation</b>      | <a href="#">China RoHS declaration</a>  |

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|                                 |   |
|---------------------------------|---|
| <b>Environmental Disclosure</b> | <a href="#">Product Environmental Profile</a>   |
| <b>Circularity Profile</b>      | <a href="#">End of Life Information</a>   |
| <b>WEEE</b>                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

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**Contractual warranty**

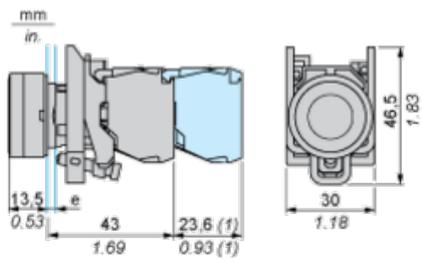
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|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

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Dimensions

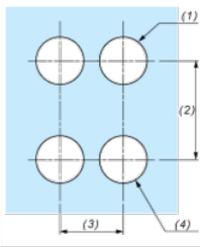
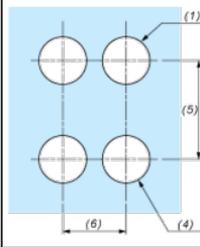
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e : clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

(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  |
|---|--|
|    |  |
| <p>(1) Diameter on finished panel or support<br/>                 (2) 40 mm min. / 1.57 in. min.<br/>                 (3) 30 mm min. / 1.18 in. min.<br/>                 (4) <math>\varnothing</math> 22.5 mm / 0.89 in. recommended (<math>\varnothing</math> 22.3 mm <math>_{0}^{+0.4}</math> / 0.88 in. <math>_{0}^{+0.016}</math>)<br/>                 (5) 45 mm min. / 1.78 in. min.<br/>                 (6) 32 mm min. / 1.26 in. min.</p> |  |