

# Product datasheet

## Characteristics

# XB5AW73731B5

Illuminated double-headed push button, plastic, Ø22, 1 green flush I + 1 pilot light + 1 red projecting O, 1 NO + 1 NC



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Harmony XB5  |
| Product or component type     | Illuminated double-headed push-button  |
| Device short name             | XB5  |
| Bezel material                | Dark grey plastic  |
| Fixing collar material        | Plastic  |
| Head type                     | Standard   |
| Mounting diameter             | 22 mm  |
| Shape of signaling unit head  | Rectangular  |
| Type of operator              | spring return  |
| Operator profile              | 1 flush - 1 projecting push-buttons - 1 central pilot light  |
| Operators description         | Green "I" - red "O"  |
| Contacts type and composition | 1 NO + 1 NC  |
| Contact operation             | Slow-break   |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm <sup>2</sup> with cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm <sup>2</sup> without cable end conforming to EN/IEC 60947-1<br>Spring terminals, <= 2 x 1.5 mm <sup>2</sup> with cable end conforming to EN/IEC 60947-1<br>Spring terminals, >= 1 x 0.22 mm <sup>2</sup> 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                        | 50 mm     |
| Width                         | 30 mm     |
| Depth                         | 59 mm     |
| Terminals description ISO n°1 | (11-12)NC |

Disclaimer: 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

## (13-14)NO

|  |   |
|--|---|
| Net weight   | 0.066 kg  |
| Resistance to high pressure washer                       | 7000000 Pa at 55 °C, distance : 0.1 m   |
| Colour of marking  | Black marking when white caps<br>White marking when green, red or black caps  |
| Operator profile   | Green flush, I (white)<br>Red projecting, O (white)   |
| Contacts usage   | Standard contacts   |
| Positive opening   | With conforming to EN/IEC 60947-5-1 appendix K  |
| Operating travel   | 1.5 mm (NC changing electrical state)<br>2.6 mm (NO changing electrical state)<br>4.3 mm (total travel)   |
| Operating force  | 3.5 N NC changing electrical state<br>3.8 N NO changing electrical state  |
| Mechanical durability                                    | 1000000 cycles  |
| Tightening torque  | 0.8...1.2 N.m conforming to EN 60947-1  |
| Shape of screw head                                      | Cross compatible with JIS No 1 screwdriver<br>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   |
| Contacts material  | Silver alloy (Ag/Ni)  |
| Short-circuit protection                                 | 10 A cartridge fuse type gG conforming to EN/IEC 60947-5-1  |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1   |
| [U <sub>ii</sub> ] rated insulation voltage              | 600 V (pollution degree 3) conforming to EN 60947-1   |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | EN 60947-1 6 kV   |
| [I <sub>e</sub> ] rated operational current              | 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  |
| Electrical durability                                    | 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 |
| Electrical reliability                                   | Δ < 10exp(-6) at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>Δ < 10exp(-8) at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4   |
| Signalling type  | Steady  |
| Light source colour                                      | Yellow  |
| Supply voltage limits                                    | 19.2...30 V DC<br>21.6...26.4 V AC  |
| Current consumption                                      | 18 mA   |
| Service life   | 100000 year(s) at rated voltage and 25 °C   |
| Surge withstand  | 1 kV conforming to IEC 61000-4-5  |
| Device presentation                                      | Complete product  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Protective treatment                  | TH   |
| Ambient air temperature for storage   | -40...70 °C  |
| Ambient air temperature for operation | -40...70 °C  |
| Overvoltage category                  | Class II conforming to IEC 61140                             |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP69 conforming to IEC 60529 |

IP69K

|                                       |  |
|---------------------------------------|--|
| NEMA degree of protection             | NEMA 13<br>NEMA 4X   |
| IK degree of protection               | IK05 conforming to IEC 50102   |
| Standards                             | EN/IEC 60947-5-1<br>UL 508<br>EN/IEC 60947-1<br>JIS C8201-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4<br>JIS C8201-1  |
| Product certifications                | LROS (Lloyds register of shipping)<br>GL<br>DNV<br>UL listed<br>RINA<br>BV<br>CSA  |
| Vibration resistance                  | 5 gn (f= 2...500 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<br>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  | 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<br>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       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 61 g    |
| Package 1 Height             | 3.3 cm  |
| Package 1 width              | 5.3 cm  |
| Package 1 Length             | 8.6 cm  |
| Unit Type of Package 2       | BB1     |
| Number of Units in Package 2 | 5       |
| Package 2 Weight             | 307 g   |
| Package 2 Height             | 3.3 cm  |
| Package 2 width              | 8.6 cm  |
| Package 2 Length             | 26.5 cm |
| Unit Type of Package 3       | S03     |
| Number of Units in Package 3 | 100     |
| Package 3 Weight             | 6.68 kg |
| Package 3 Height             | 30 cm   |
| Package 3 width              | 30 cm   |
| Package 3 Length             | 40 cm   |

**Offer Sustainability**

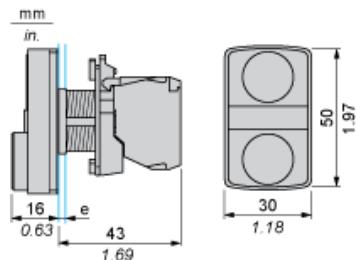
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Pro-active compliance (Product out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

| 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 |
| <b>Contractual warranty</b> |   |
| Warranty                    | 18 months   |

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Dimensions

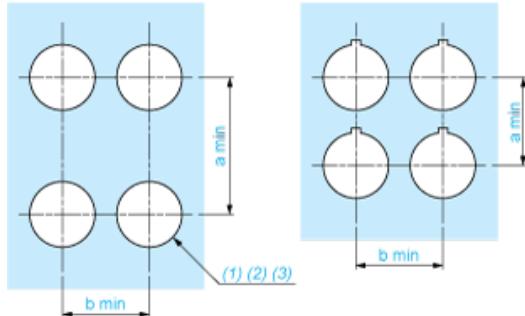
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e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

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

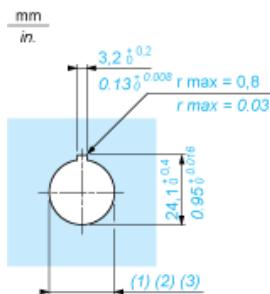
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



(1) Diameter on finished panel or support  
 (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  
 (3) Ø22.5 mm recommended ( $\varnothing 22.3 \text{ mm}^{+0.4}$ ) / Ø0.89 in. recommended ( $\varnothing 0.88 \text{ in.}^{+0.016}$ )

| Connections                                   | a in mm | a in in. | b in mm | b in in. |
|---|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 30      | 1.18     |
| By Faston connectors                          | 45      | 1.77     | 32      | 1.26     |
| On printed circuit board                      | 30      | 1.18     | 30      | 1.18     |

Detail of Lug Recess



(1) Diameter on finished panel or support  
 (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  
 (3) Ø22.5 mm recommended ( $\varnothing 22.3 \text{ mm}^{+0.4}$ ) / Ø0.89 in. recommended ( $\varnothing 0.88 \text{ in.}^{+0.016}$ )