# Product datasheet

Specifications



## Illuminated push button, Harmony XB5, plastic, blue flush, 22mm, universal LED, plain lens, 1NO + 1NC, 110...120V AC

Local distributor code:

409063868 XB5AW36G5

**Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks**
**EAN Code: 3389110136968**

## Main

| | |
|---|---|
| **Range of product** | Harmony XB5 |
| **Product or component type** | Illuminated push-button |
| **Device short name** | XB5 |
| **Bezel material** | Dark grey plastic |
| **Fixing collar material** | Plastic |
| **Head type** | Standard |
| **Mounting diameter** | 22.5 mm |
| **Sale per indivisible quantity** | 1 |
| **Shape of signaling unit head** | Round |
| **Type of operator** | spring return |
| **Operator profile** | Blue flush, unmarked |
| **Operator additional information** | With plain lens |
| **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 IEC 60947-1<br>Screw clamp terminals, 1 x 0.22...2 x 2.5 mm² without cable end conforming to IEC 60947-1 |
| **Light source** | Universal LED |
| **Bulb base** | Integral LED |
| **[Us] rated supply voltage** | 110...120 V AC 50/60 Hz |
| **Cap/operator or lens colour** | Blue |

## Complementary

| | |
|---|---|
| **Height** | 42 mm |
| **Width** | 30 mm |
| **Depth** | 57 mm |
| **Terminals description ISO n°1** | (13-14)NO<br>(21-22)NC |
| **Net weight** | 0.056 kg |
| **Resistance to high pressure washer** | 7000000 Pa at 55 °C, distance : 0.1 m |

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

| | |
|---|---|
| **Contacts usage** | Standard contacts |
| **Positive opening** | With conforming to 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 |
| **Mechanical durability** | 10000000 cycles |
| **Tightening torque** | 0.8…1.2 N.m conforming to IEC 60947-1 |
| **Shape of screw head** | 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 IEC 60947-5-1 |
| **[Ith] conventional free air thermal current** | 10 A conforming to IEC 60947-5-1 |
| **[Ui] rated insulation voltage** | 600 V (pollution degree 3) conforming to IEC 60947-1 |
| **[Uimp] rated impulse withstand voltage** | 6 kV conforming to IEC 60947-1 |
| **[Ie] rated operational current** | 3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to 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 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 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 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 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 IEC 60947-5-1 appendix C |
| **Electrical reliability** | Λ < 10exp(-6) at 5 V, 1 mA in clean environment conforming to IEC 60947-5-4<br>Λ < 10exp(-8) at 17 V, 5 mA in clean environment conforming to IEC 60947-5-4 |
| **Signalling type** | Steady |
| **Supply voltage limits** | 100…132 V AC |
| **Current consumption** | 14 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** | TH |
| **Ambient air temperature for storage** | -40…70 °C |
| **Ambient air temperature for operation** | -40…70 °C |
| **Overvoltage category** | Class II conforming to IEC 60536 |
| **IP degree of protection** | IP66 conforming to IEC 60529<br>IP69<br>IP69K<br>IP67 |

| | |
|---|---|
| **Enclosure Type** | UL type 4X/13 |
| **IK degree of protection** | IK05 conforming to IEC 50102 |
| **Standards** | IEC 60947-5-1<br>CSA C22.2 No 14<br>IEC 60947-5-4<br>JIS C8201-5-1<br>IEC 60947-1<br>UL 508<br>JIS C8201-1 |
| **Product certifications** | CSA<br>LROS (Lloyds register of shipping)<br>BV<br>UL listed<br>DNV |
| **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 Height** | 8.64 cm |
| **Package 1 Width** | 3.3 cm |
| **Package 1 Length** | 5.33 cm |
| **Package 1 Weight** | 0.05 kg |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 50 |
| **Package 2 Height** | 15 cm |
| **Package 2 Width** | 30 cm |
| **Package 2 Length** | 40 cm |
| **Package 2 Weight** | 3.105 kg |

## Logistical informations

| | |
|---|---|
| **Country of origin** | FR |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

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

| | |
|---|---|
| Total lifecycle Carbon footprint | **1 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **0.4 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **0.4 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.1 kg CO2 eq.** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Average percentage of recycled plastic content | **22 %** |
| Average percentage of recycled metal content | **13 %** |
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **425812e5-011f-4fb4-ad1b-fc9cf9865300** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Product repair index | **A** |

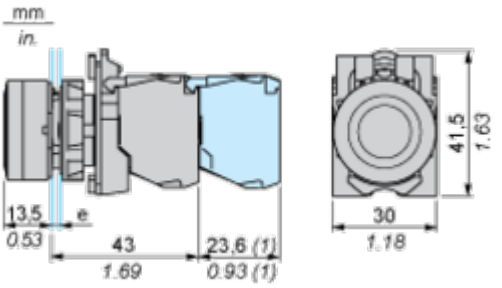
## Use Again

### Repack and remanufacture

| | |
|---|---|
| End of life manual availability | **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

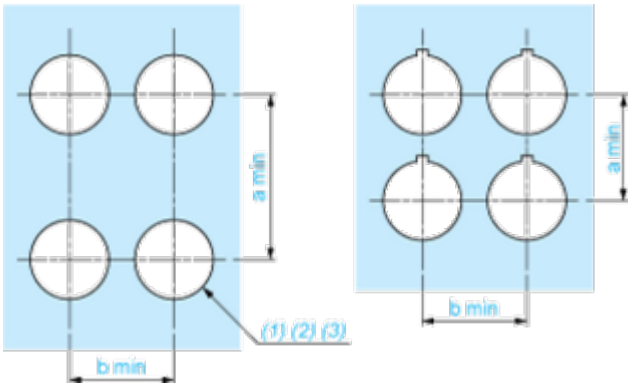



**e:** clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.
**(1)** Additional row of contacts or double contact.

## Mounting and Clearance

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

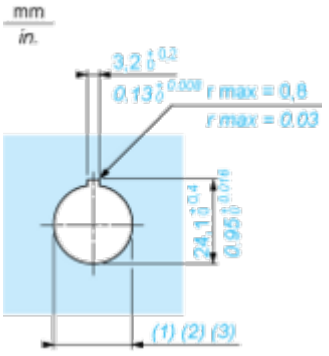
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board




**(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 (Ø22.3 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_{0}^{+0.016}$)

| 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 (Ø22.3 $_{0}^{+0.4}$) / Ø0.89 in. recommended (Ø0.88 in. $_{0}^{+0.016}$)

Image of product / Alternate images

**Alternative**



Image of product in real life situation

