# Product data sheet

Specifications

## Illuminated push button, Harmony XB5, antimicrobial, plastic, white, 30mm, universal LED, 1NO + 1NC, 230...240V AC

XB5FW31M5

## Main

| | |
|---|---|
| **Range of product** | Harmony XB5 |
| **product or component type** | Illuminated push-button |
| **Device short name** | XB5F |
| **Bezel material** | Dark grey plastic |
| **Fixing collar material** | Plastic |
| **Head type** | Built-in-flush |
| **Mounting diameter** | 1.2 in (30.5 mm) |
| **Sale per indivisible quantity** | 1 |
| **Shape of signaling unit head** | Round |
| **Type of operator** | spring return |
| **Operator profile** | White 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 IEC 60947-1<br>Screw clamp terminals, 1 x 0.22...2 x 2.5 mm² without cable end IEC 60947-1 |
| **Light source** | Universal LED |
| **Bulb base** | Integral LED |
| **[Us] rated supply voltage** | 220...240 V AC 50/60 Hz |
| **Cap/operator or lens colour** | White |

## Complementary

| | |
|---|---|
| **Height** | 1.7 in (42 mm) |
| **Width** | 1.4 in (36.6 mm) |
| **Depth** | 2.2 in (55 mm) |
| **Terminals description ISO n°1** | (21-22)NC<br>(13-14)NO |
| **Resistance to high pressure washer** | 1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m |
| **Contacts usage** | Standard contacts |
| **Positive opening** | With IEC 60947-5-1 appendix K |
| **Operating travel** | 0.06 in (1.5 mm) NC changing electrical state)<br>0.1 in (2.6 mm) NO changing electrical state)<br>0.2 in (4.3 mm) total travel) |

| | |
|---|---|
| **Operating force** | 3.5 N NC changing electrical state<br>3.8 N |
| **Mechanical durability** | 10000000 cycles |
| **Tightening torque** | 7.08…10.6 lbf.in (0.8…1.2 N.m) IEC 60947-1 |
| **Shape of screw head** | Cross Philips no 1<br>Cross pozidriv No 1<br>Slotted flat Ø 4 mm<br>Slotted flat Ø 5.5 mm |
| **Contacts material** | Silver alloy (Ag/Ni) |
| **Short-circuit protection** | 10 A cartridge fuse gG IEC 60947-5-1 |
| **[Ith] conventional free air thermal current** | 10 A IEC 60947-5-1 |
| **[Ui] rated insulation voltage** | 600 V 3)IEC 60947-1 |
| **[Uimp] rated impulse withstand voltage** | 6 kV IEC 60947-1 |
| **[Ie] rated operational current** | 3 A 240 V, AC-15, A600 IEC 60947-5-1<br>6 A 120 V, AC-15, A600 IEC 60947-5-1<br>0.1 A 600 V, DC-13, Q600 IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q600 IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q600 IEC 60947-5-1<br>1.2 A 600 V, AC-15, A600 IEC 60947-5-1 |
| **Electrical durability** | 1000000 cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 IEC 60947-5-1 appendix C |
| **Electrical reliability** | $\Lambda < 10exp(-6)$ 5 V, 1 mA in clean environment IEC 60947-5-4<br>$\Lambda < 10exp(-8)$ 17 V, 5 mA in clean environment IEC 60947-5-4 |
| **Signalling type** | Steady |
| **Supply voltage limits** | 195…264 V AC |
| **Current consumption** | 14 mA |
| **Service life** | 100000 h at rated voltage and 25 °C |
| **Surge withstand** | 1 kV IEC 61000-4-5 |
| **device presentation** | Complete product |

## Environment

| | |
|---|---|
| **protective treatment** | TH |
| **Ambient air temperature for storage** | -40…158 °F (-40…70 °C) |
| **Ambient air temperature for operation** | -40…158 °F (-40…70 °C) |
| **Overvoltage category** | Class II IEC 60536 |
| **IP degree of protection** | IP66 IEC 60529<br>IP67<br>IP69<br>IP69K |
| **NEMA degree of protection** | NEMA 13<br>NEMA 4X |
| **IK degree of protection** | IK03 conforming to IEC 50102 |

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| | |
|---|---|
| **Standards** | IEC 60947-1<br>UL 508<br>JIS C8201-5-1<br>IEC 60947-5-4<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>JIS C8201-1<br>ISO 22196:2011<br>ISO 21702 |
| **Product certifications** | UL listed<br>CSA |
| **Vibration resistance** | 5 gn 2…500 Hz)IEC 60068-2-6 |
| **Shock resistance** | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27 |
| **Resistance to fast transients** | 2 kV IEC 61000-4-4 |
| **Resistance to electromagnetic fields** | 9.1 V/yd (10 V/m) IEC 61000-4-3 |
| **Resistance to electrostatic discharge** | 6 kV on contact (on metal parts) IEC 61000-4-2<br>8 kV in free air (in insulating parts) IEC 61000-4-2 |
| **Electromagnetic emission** | Class B IEC 55011 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 2.10 in (5.33 cm) |
| **Package 1 Width** | 1.70 in (4.32 cm) |
| **Package 1 Length** | 3.60 in (9.14 cm) |
| **Package 1 Weight** | 0.13 lb(US) (0.06 kg) |

# Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium ⟩

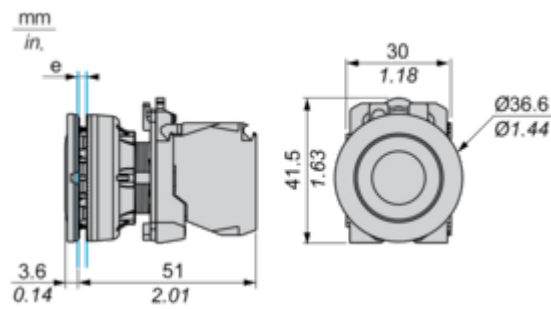Guide to assess a product's sustainability ⟩

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information          Yes

| Reach Regulation | REACh Declaration |
|---|---|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

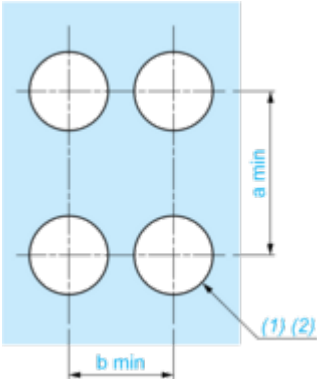Dimensions Drawings

**Dimensions**



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

Mounting and Clearance

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

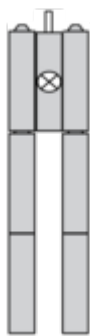**Connection by Screw Clamp Terminals or Plug-in Connectors**



(1) (2)

a min

b min

**(1)** Diameter on finished panel or support

**(2)** Ø30.75 mm recommended (Ø30.5 $_0^{+0.5}$) / Ø1.21 in. recommended (Ø1.20 in. $_0^{+0.0196}$)

| Connections | a in mm | a in in. | b in mm | b in in. |
|---|---|---|---|---|
| By screw clamp terminals or plug-in connector | 40 | 1.57 | 40 | 1.57 |
| By Faston connectors | 45 | 1.77 | 40 | 1.57 |

Technical Description

**Electrical Composition Corresponding to Codes M1 and M7**

**Electrical Composition Corresponding to Codes M2 and M8**

## Electrical Composition Corresponding to Codes M6 and P2

**Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2**

## Legend

Single contact

Double contact

Light block

Possible location