# Product data sheet

Specifications

## Illuminated push button, Harmony XB5, white, 30mm, universal LED, 1NO + 1NC, 110...120V AC

XB5FW31G5

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

## 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** | 110...120 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 |

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

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

| | |
|---|---|
| **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** | Λ < 10exp(-6) 5 V, 1 mA in clean environment IEC 60947-5-4<br>Λ < 10exp(-8) 17 V, 5 mA in clean environment 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 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 conforming to 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 |

| | |
|---|---|
| **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 (f= 2…500 Hz) conforming to 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/m (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 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US10CS222467 |
| **Discount Schedule** | 0CS2 |
| **GTIN** | 3606481361011 |
| **Returnability** | Yes |
| **Country of origin** | FR |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 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 weight(Lbs)** | 0.13 lb(US) (0.06 kg) |

## 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

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 39 |
| 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) |
| SCIP Number | 425812e5-011f-4fb4-ad1b-fc9cf9865300 |
| REACh Regulation | REACh Declaration |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Product repairability index | A |

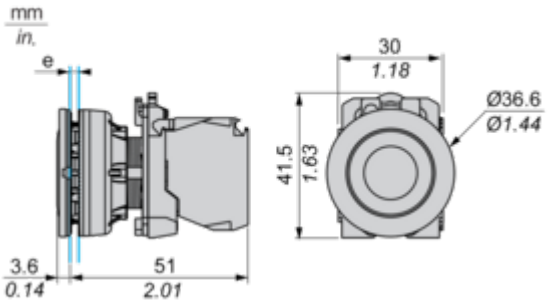
## Use Again

### 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

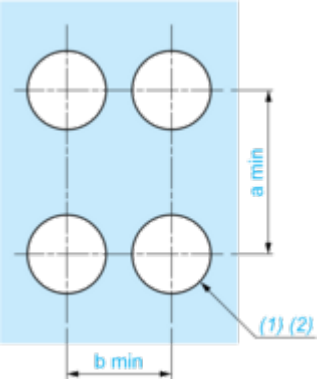



**e:** Clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

## 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



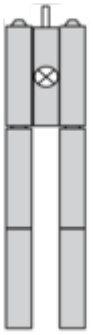

**(1)** Diameter on finished panel or support

**(2)** Ø30.75 mm recommended (Ø30.5 $_{0}^{+0.5}$) / Ø1.21 in. recommended (Ø1.20 in. $_{0}^{+0.0196}$)

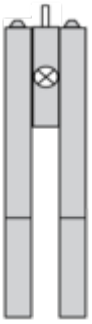
| Connections | a in mm | a in in. | b in mm | b in in. |
|---|---|---|---|---|
| By screw clamp terminals or plug-in connector | 40 | 1.57 | 40 | 1.57 |
| By Faston connectors | 45 | 1.77 | 40 | 1.57 |

Technical Description

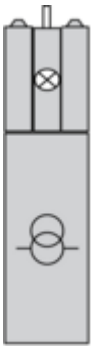
## Electrical Composition Corresponding to Codes M1 and M7



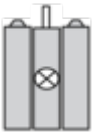
## Electrical Composition Corresponding to Codes M2 and M8



## Electrical Composition Corresponding to Codes M6 and P2



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



## Legend

Single contact

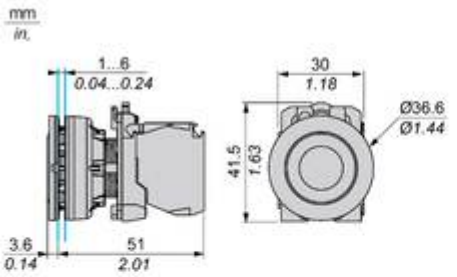
Double contact

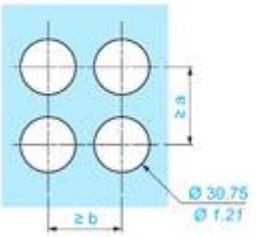
Light block

Possible location

Technical Illustration

**Dimensions**




| | | a (mm) | a (in.) | b (mm) | b (in.) |
|---|---|---|---|---|---|
| ZBE●●●●● | ZBV●●●● | 40 | 1.57 | 40 | 1.57 |
| ZBE●●●●●3 | ZBV●●●●3 | 45 | 1.77 | 40 | 1.57 |
| ZBE●●●●●4 | ZBV●●●●4 | 40 | 1.57 | 40 | 1.57 |

Offer Marketing Illustration

## Product benefits / Features

Offer Marketing Illustration

## Product benefits / Features

Offer Marketing Illustration

## Product benefits / Features

Image of product / Alternate images

**Alternative**

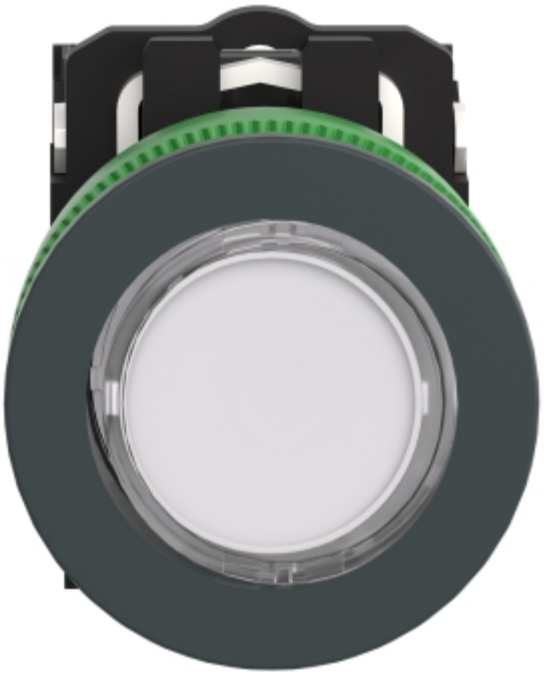


Image of product in real life situation