

# Product data sheet

Specifications



Illuminated push button, Harmony XB5, antimicrobial, plastic, blue, 30mm, universal LED, 1NO + 1NC, 24V AC DC

XB5FW36B5

## 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               | 1.20 in (30.5 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 EN/IEC 60947-1<br>Screw clamp terminals, 1 x 0.22...2 x 2.5 mm² without cable end EN/IEC 60947-1 |
| Light source                    | Universal LED                                                                                                                                         |
| Bulb base                       | Integral LED                                                                                                                                          |
| [Us] rated supply voltage       | 24 V AC/DC 50/60 Hz                                                                                                                                   |
| Cap/Operator or lens colour     | Blue                                                                                                                                                  |

## Complementary

|                                    |                                               |
|------------------------------------|-----------------------------------------------|
| Height                             | 1.65 in (42 mm)                               |
| Width                              | 1.44 in (36.6 mm)                             |
| Depth                              | 2.17 in (55 mm)                               |
| Terminals description ISO n°1      | (21-22)NC<br>(13-14)NO                        |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m |
| Contacts usage                     | Standard contacts                             |
| Positive opening                   | With EN/IEC 60947-5-1 appendix K              |

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating travel                            | 0.06 in (1.5 mm) NC changing electrical state<br>0.10 in (2.6 mm) NO changing electrical state<br>0.17 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...10.62 lbf.in (0.8...1.2 N.m) EN 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 EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                   |
| [Ith] conventional free air thermal current | 10 A EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ui] rated insulation voltage               | 600 V 3)EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                    |
| [Uimp] rated impulse withstand voltage      | 6 kV EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                       |
| [Ie] rated operational current              | 3 A 240 V, AC-15, A600 EN/IEC 60947-5-1<br>6 A 120 V, AC-15, A600 EN/IEC 60947-5-1<br>0.1 A 600 V, DC-13, Q600 EN/IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q600 EN/IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q600 EN/IEC 60947-5-1<br>1.2 A 600 V, AC-15, A600 EN/IEC 60947-5-1                                                                                                                                  |
| Electrical durability                       | 1000000 cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C |
| Electrical reliability                      | $\Lambda < 10\exp(-6)$ 5 V, 1 mA in clean environment EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ 17 V, 5 mA in clean environment EN/IEC 60947-5-4                                                                                                                                                                                                                                                         |
| Signalling type                             | Steady                                                                                                                                                                                                                                                                                                                                                                                                    |
| Supply voltage limits                       | 19.2...30 V DC<br>21.6...26.4 V AC                                                                                                                                                                                                                                                                                                                                                                        |
| Current consumption                         | 18 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 IEC 50102                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards                                   | EN/IEC 60947-1<br>UL 508<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>JIS C8201-1<br>ISO 22196:2011                                                                                                                                                                                                                                                                     |

|                                       |                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 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  | 9.14 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                                                                                                  |

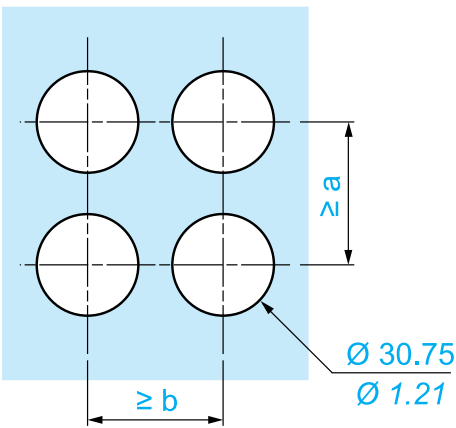
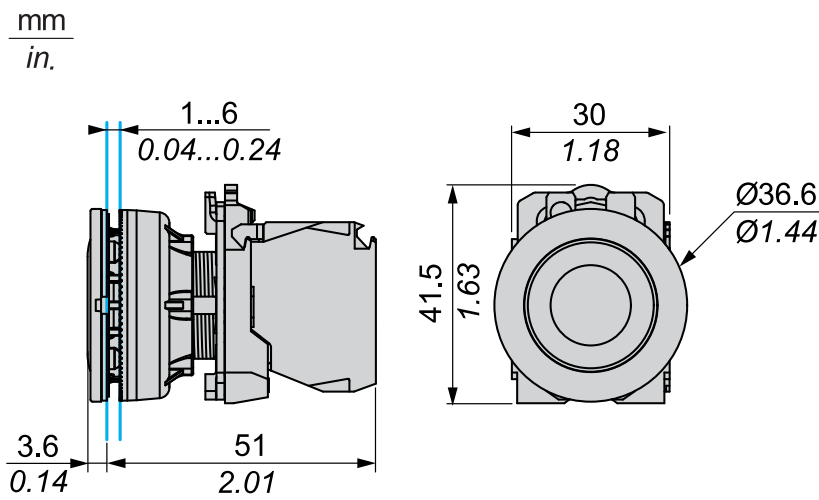
### Packing Units

|                              |                       |
|------------------------------|-----------------------|
| 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             | 3.50 in (8.89 cm)     |
| Package 1 Weight             | 0.13 lb(US) (0.06 kg) |

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a>                           |
| Mercury free               | Yes                                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                                                      |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Dimensions



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

Recommended replacement(s)