

# XB5AW35B5C1

yellow flush illum pushbutton with integral LED  
24V cp white



## Main

|                                 |                                                                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                | Harmony XB5                                                                                                                                                                                  |
| Product or component type       | Illuminated push-button                                                                                                                                                                      |
| Device short name               | XB5                                                                                                                                                                                          |
| Bezel material                  | Plastic colour plated white                                                                                                                                                                  |
| Fixing collar material          | Plastic                                                                                                                                                                                      |
| Head type                       | Standard                                                                                                                                                                                     |
| Mounting diameter               | 0.87 in (22 mm)                                                                                                                                                                              |
| Sale per indivisible quantity   | 1                                                                                                                                                                                            |
| Shape of signaling unit head    | Round                                                                                                                                                                                        |
| Type of operator                | Spring return                                                                                                                                                                                |
| Operator profile                | Orange 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, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end EN/IEC 60947-1<br>Screw clamp terminals, $1 \times 0.22...2 \times 2.5 \text{ mm}^2$ without cable end EN/IEC 60947-1 |
| Light source                    | Protected LED                                                                                                                                                                                |
| Bulb base                       | Integral LED                                                                                                                                                                                 |
| [Us] rated supply voltage       | 24 V AC/DC 50/60 Hz                                                                                                                                                                          |

## Complementary

|                                             |                                                                                                                                    |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Height                              | 1.65 in (42 mm)                                                                                                                    |
| Maximum Width                               | 1.18 in (30 mm)                                                                                                                    |
| Maximum Depth                               | 2.24 in (57 mm)                                                                                                                    |
| Terminals description ISO n°1               | (13-14)NO<br>(21-22)NC                                                                                                             |
| Net Weight                                  | 0.12 lb(US) (0.056 kg)                                                                                                             |
| 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                                                                                              |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                  |
| IK degree of protection               | IK05 IEC 50102                                                                                                      |
| Standards                             | UL 508<br>EN/IEC 60947-5-4<br>EN/IEC 60947-1<br>CSA C22.2 No 14<br>JIS C8201-5-1<br>EN/IEC 60947-5-1<br>JIS C8201-1 |
| Product certifications                | UL Listed<br>GL<br>LROS (Lloyds register of shipping)<br>DNV<br>CSA<br>RINA<br>BV                                   |
| 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/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

|                     |                    |
|---------------------|--------------------|
| Package weight(Lbs) | 1.94 oz (55.000 g) |
|---------------------|--------------------|

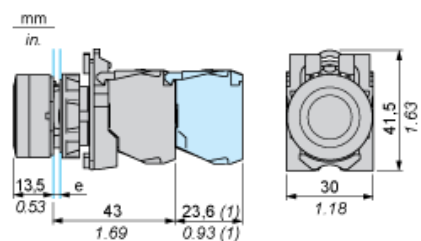
## Packing Units

|                  |                    |
|------------------|--------------------|
| Package 1 Height | 3.39 in (8.600 cm) |
| Package 1 width  | 1.30 in (3.300 cm) |
| Package 1 Length | 2.05 in (5.200 cm) |

## Offer Sustainability

|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| REACH free of SVHC         | Yes                                                                                                                          |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <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>                                                                                       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

## Dimensions



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

## 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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )

| 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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )