

# XB5AD33

Harmony, 22mm Push Button, 3 position selector switch, black, maintained, 2 NO, marked HAND OFF AUTO



## Main

|                               |                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product              | Harmony XB5                                                                                                                                                            |
| Product or Component Type     | Selector switch                                                                                                                                                        |
| Device short name             | XB5                                                                                                                                                                    |
| Bezel material                | Dark grey 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              | Stay put                                                                                                                                                               |
| Operator profile              | Black standard handle                                                                                                                                                  |
| Operator position information | 3 positions +/- 45°                                                                                                                                                    |
| Contacts type and composition | 2 NO                                                                                                                                                                   |
| Contact operation             | Slow-break                                                                                                                                                             |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm <sup>2</sup> with cable end EN/IEC 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm <sup>2</sup> without cable end EN/IEC 60947-1 |

## Complementary

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                                      | 1.65 in (42 mm)                                                                                                                                                                                                                                                          |
| Width                                       | 1.18 in (30 mm)                                                                                                                                                                                                                                                          |
| Depth                                       | 2.76 in (70 mm)                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1               | (13-14)NO                                                                                                                                                                                                                                                                |
| Net Weight                                  | 0.11 lb(US) (0.052 kg)                                                                                                                                                                                                                                                   |
| Resistance to high pressure washer          | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                                                                                                                                                                                                            |
| Contacts usage                              | Standard contacts                                                                                                                                                                                                                                                        |
| Positive opening                            | Without                                                                                                                                                                                                                                                                  |
| Torque value                                | 1.24 lbf.in (0.14 N.m) NO changing electrical state                                                                                                                                                                                                                      |
| Mechanical durability                       | 1000000 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 60947-1                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage      | 6 kV EN 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                                                                                                                                                                                                                                                         |
| 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)                                                                                          |
| Electrical shock protection class     | Class II IEC 60536                                                                                                  |
| IP degree of protection               | IP67 IEC 60529<br>IP69<br>IP69K                                                                                     |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                  |
| IK degree of protection               | IK06 IEC 50102                                                                                                      |
| Standards                             | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>JIS C8201-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4<br>UL 508<br>JIS C8201-1 |
| Product Certifications                | UL<br>GL<br>LROS (Lloyds register of shipping)<br>DNV<br>CSA<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  |

## Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22467-PUSHBUTTONS,22MM(PLASTIC) NEW |
| Discount Schedule     | CS2                                 |
| GTIN                  | 3389110903454                       |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 1.80 oz (50.9 g)                    |
| Returnability         | Yes                                 |
| Country of origin     | FR                                  |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Package 1 Height             | 1.30 in (3.3 cm)          |
| Package 1 width              | 2.05 in (5.2 cm)          |
| Package 1 Length             | 3.39 in (8.6 cm)          |
| Unit Type of Package 2       | P06                       |
| Number of Units in Package 2 | 1200                      |
| Package 2 Weight             | 161.48 lb(US) (73.244 kg) |
| Package 2 Height             | 30.31 in (77 cm)          |
| Package 2 width              | 31.50 in (80 cm)          |
| Package 2 Length             | 23.62 in (60 cm)          |
| Unit Type of Package 3       | S03                       |
| Number of Units in Package 3 | 150                       |
| Package 3 Weight             | 18.13 lb(US) (8.223 kg)   |

|                  |                  |
|------------------|------------------|
| Package 3 Height | 11.81 in (30 cm) |
| Package 3 width  | 11.81 in (30 cm) |
| Package 3 Length | 15.75 in (40 cm) |

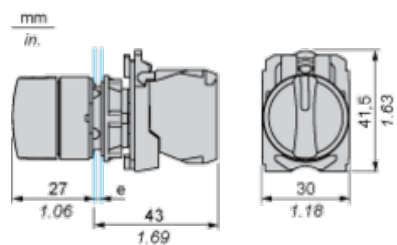
### Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                 |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                     |
| REACH free of SVHC         | Yes                                                                                                                                                                                                                                                                                   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                        |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                   |
| Mercury free               | Yes                                                                                                                                                                                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</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.                                                                                                                                                          |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



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

## 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 ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )

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