



### Main

|                                |                                                                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product               | Harmony XB5                                                                                                                                                                |
| Product or component type      | Joystick controller                                                                                                                                                        |
| Device short name              | XD5                                                                                                                                                                        |
| Bezel material                 | Plastic                                                                                                                                                                    |
| Fixing collar material         | Plastic                                                                                                                                                                    |
| 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               | 54 mm long operating shaft                                                                                                                                                 |
| Operator position information  | 5 positions                                                                                                                                                                |
| Operator direction information | 4 directions                                                                                                                                                               |
| Connections - terminals        | Screw clamp terminals, $\leq 2 \times 1.5 \text{ mm}^2$ with cable end EN 60947-1<br>Screw clamp terminals, $\geq 1 \times 0.22 \text{ mm}^2$ without cable end EN 60947-1 |

### Complementary

|                                                          |                                                                                           |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Maximum Height                                           | 1.85 in (47 mm)                                                                           |
| Maximum Width                                            | 1.18 in (30 mm)                                                                           |
| Maximum Depth                                            | 5.20 in (132 mm)                                                                          |
| Net Weight                                               | 0.17 lb(US) (0.077 kg)                                                                    |
| Resistance to high pressure washer                       | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                             |
| Notch per direction                                      | 1                                                                                         |
| Contacts type and composition                            | 1 NO                                                                                      |
| Contact operation                                        | Slow-break                                                                                |
| Contacts usage                                           | Standard                                                                                  |
| Positive opening                                         | Without                                                                                   |
| Mechanical durability                                    | 1000000 cycles                                                                            |
| Device presentation                                      | Complete product                                                                          |
| 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                                                   |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A EN/IEC 60947-5-1                                                                     |
| [U <sub>i</sub> ] rated insulation voltage               | 600 V 3)EN 60947-1                                                                        |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV EN 60947-1                                                                           |
| [I <sub>e</sub> ] rated operational current              | 0.1 A 250 V, DC-13, R300 EN/IEC 60947-5-1<br>0.22 A 125 V, DC-13, R300 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                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                                  |
| Ambient air temperature for storage   | -40...158 °F (-40...70 °C)                                                                                          |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)                                                                                          |
| Electrical shock protection class     | Class II IEC 60536                                                                                                  |
| IP degree of protection               | IP66 IEC 60529                                                                                                      |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                  |
| IK degree of protection               | IK03 IEC 50102                                                                                                      |
| Standards                             | EN/IEC 60947-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-1<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>UL 508<br>JIS C8201-1 |
| Product certifications                | CSA<br>DNV<br>LROS (Lloyds register of shipping)<br>RINA<br>UL Listed<br>BV<br>GL                                   |
| 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                  | 00785901384809                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 0.75 lb(US) (0.34 kg)                 |
| Returnability         | No                                    |
| Country of origin     | FR                                    |

## Packing Units

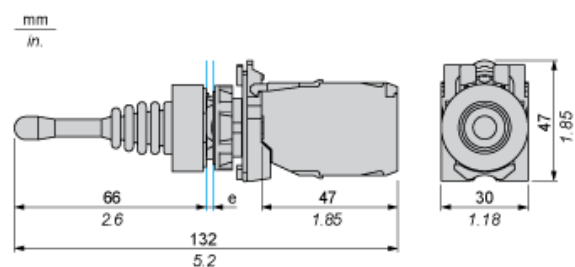
|                  |          |
|------------------|----------|
| Package 1 Height | 0.450 dm |
| Package 1 width  | 0.540 dm |
| Package 1 Length | 1.300 dm |

## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| 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 |  Yes                                                                                              |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                           |

|                             |                                                                                                                                |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Environmental Disclosure    | <a href="#"> Product Environmental Profile</a> |
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.   |
| <b>Contractual warranty</b> |                                                                                                                                |
| Warranty                    | 18 months                                                                                                                      |

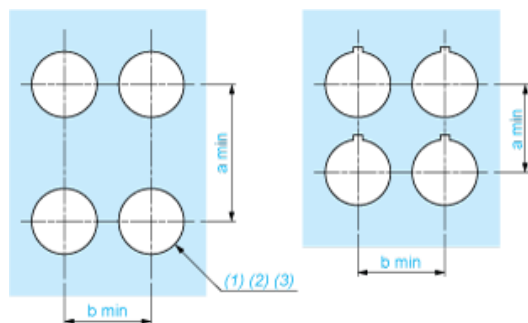
## Dimensions



e: panel 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)

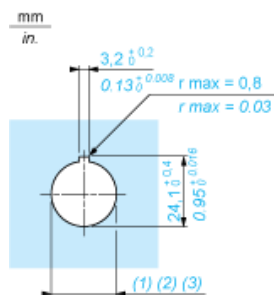
### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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