

# ZB5AZ102TQ

Complete body/contact assembly, Harmony XB5, single contact, with body/fixing collar, plastic, screw clamp terminals, 1NC, set of 100



## Main

|                               |                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product              | Harmony XB5                                                                                                                                                                |
| Product or Component Type     | Complete body/contact assembly                                                                                                                                             |
| Device short name             | ZB5                                                                                                                                                                        |
| Fixing collar material        | Plastic                                                                                                                                                                    |
| Sale per indivisible quantity | 100                                                                                                                                                                        |
| Head type                     | Standard                                                                                                                                                                   |
| Contacts type and composition | 1 NC                                                                                                                                                                       |
| Contact operation             | Slow-break                                                                                                                                                                 |
| Contact block type            | Single                                                                                                                                                                     |
| 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

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminals description ISO n°1                            | (11-12)NC                                                                                                                                                                                                                                                                                                                                                                                                 |
| Device Composition                                       | Body<br>Fixing collar                                                                                                                                                                                                                                                                                                                                                                                     |
| 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>0.17 in (4.3 mm) total travel)                                                                                                                                                                                                                                                                                                                          |
| Operating force                                          | 2 N NC changing electrical state                                                                                                                                                                                                                                                                                                                                                                          |
| 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                                                                                                                                                                                                                                                                                                                                                                   |
| [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              | 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                                                                                                                                                                                                                                                         |

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## 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)                                                                                          |
| IP degree of protection               | IP20 IEC 60529                                                                                                      |
| Standards                             | EN/IEC 60947-5-1<br>UL 508<br>EN/IEC 60947-1<br>CSA C22.2 No 14<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>JIS C8201-1 |
| Product Certifications                | LROS (Lloyds register of shipping)<br>DNV<br>BV<br>GL<br>CSA<br>UL                                                  |
| 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          | 22469-PUSHBUTTON,22MM ACCESSORIES-NEW |
| Discount Schedule | CS2                                   |
| GTIN              | 3389110894851                         |
| Returnability     | Yes                                   |
| Country of origin | FR                                    |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 2.13 in (5.400 cm)     |
| Package 1 Width              | 1.34 in (3.400 cm)     |
| Package 1 Length             | 1.73 in (4.400 cm)     |
| Package 1 Weight             | 0.49 oz (14.000 g)     |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 100                    |
| Package 2 Height             | 5.91 in (15.000 cm)    |
| Package 2 Width              | 11.81 in (30.000 cm)   |
| Package 2 Length             | 15.75 in (40.000 cm)   |
| Package 2 Weight             | 3.90 lb(US) (1.770 kg) |

## Offer Sustainability

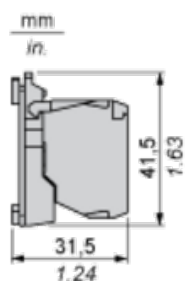
|                            |                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                   |
| 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. |
| <b>Contractual warranty</b> |                                                                                                                              |
| Warranty                    | 18 months                                                                                                                    |

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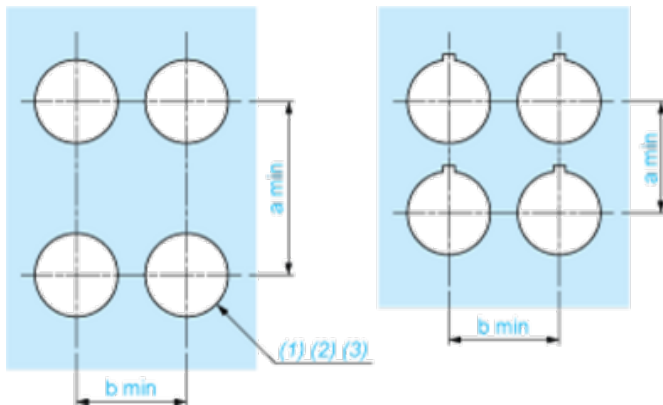
Dimensions

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Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

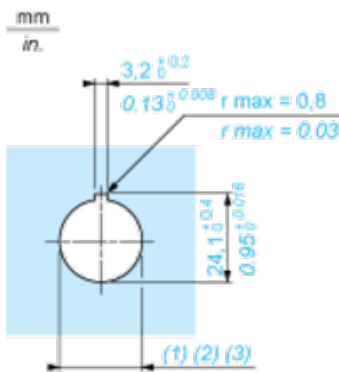
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



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