



### Hovedkarakteristikk

|                                  |                               |
|----------------------------------|-------------------------------|
| Produktspekter                   | Harmony XB5                   |
| Produkt eller komponent type     | Hode for trykknapper uten lys |
| Kallenavn på utstyr              | ZB5                           |
| Innfatningsmateriale             | Plast                         |
| Montasjediameter                 | 22 mm                         |
| Salg per udelelig kvantitet      | 1                             |
| Formen på varslingsenhetens hode | Rund                          |
| Type arm/stempel                 | Trykk-trykk                   |
| Operatørprofil                   | Sort innfelt umerket          |

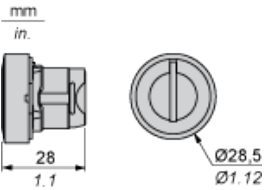
### Alternativer

|                              |                                                                                                                                                                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bredde                       | 29 mm                                                                                                                                                                                                                                                                                                                  |
| Høyde                        | 29 mm                                                                                                                                                                                                                                                                                                                  |
| Dybde                        | 28 mm                                                                                                                                                                                                                                                                                                                  |
| Vekt                         | 0.018 kg                                                                                                                                                                                                                                                                                                               |
| Mechanical durability        | 500000 sykluser                                                                                                                                                                                                                                                                                                        |
| Stasjonsnavn                 | XALD 1...5 hull<br>XALK 2...5 hull                                                                                                                                                                                                                                                                                     |
| Elektrisk sammensetningskode | C11 for <= 3 kontakter bruker Enkel blokker i frontmontering<br>C15 for 1 kontakter bruker Enkel blokker i frontmontering<br>SF1 for <= 3 kontakter bruker Enkel blokker i frontmontering<br>SR1 for <= 3 kontakter bruker Enkel blokker i bakmontering<br>C9 for <= 3 kontakter bruker Enkel blokker i frontmontering |

### Miljø

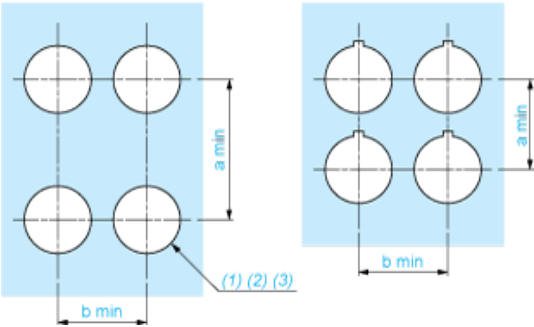
|                                      |                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| protective treatment                 | TH                                                                                                                                                                           |
| omgivelsestemperatur for oppbevaring | -40...70 °C                                                                                                                                                                  |
| ambefalt temperatur ved drift        | -25...70 °C                                                                                                                                                                  |
| beskyttelsesgrad mot elektrisk støt  | Klasse II i henhold til IEC 60536                                                                                                                                            |
| IP-grad                              | IP66 i henhold til IEC 60529                                                                                                                                                 |
| NEMA beskyttelsesgrad                | NEMA 13<br>NEMA 4X                                                                                                                                                           |
| resistens til høytrykksvask          | 7000000 Pa på 55 °C,avstand: 0.1 m                                                                                                                                           |
| IK beskyttelsesklasse                | IK03 i samsvar med IEC 50102                                                                                                                                                 |
| standarder                           | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>JIS C 4520<br>UL 508<br>CSA C22.2 No 14                                                                            |
| produktsertifikater                  | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL listet                                                                                            |
| støtmotstand                         | 30 gn (varighet = 18 ms) for halvsinusurve akselerasjon i henhold til IEC 60068-2-27<br>50 gn (varighet = 11 ms) for halvsinusurve akselerasjon i henhold til IEC 60068-2-27 |
| Vibrasjonsmotstand                   | 5 gn (f = 2...500 Hz) i henhold til IEC 60068-2-6                                                                                                                            |

Dimensions



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

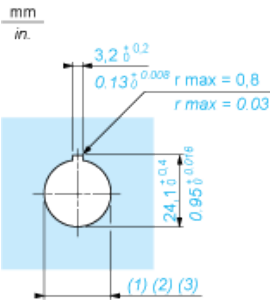
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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) Ø22.5 mm recommended ( $\text{Ø}22.3^{+0.4}_0$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in.}^{+0.016}_0$ )

| 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



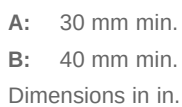
- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended ( $\text{Ø}22.3^{+0.4}_0$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in.}^{+0.016}_0$ )

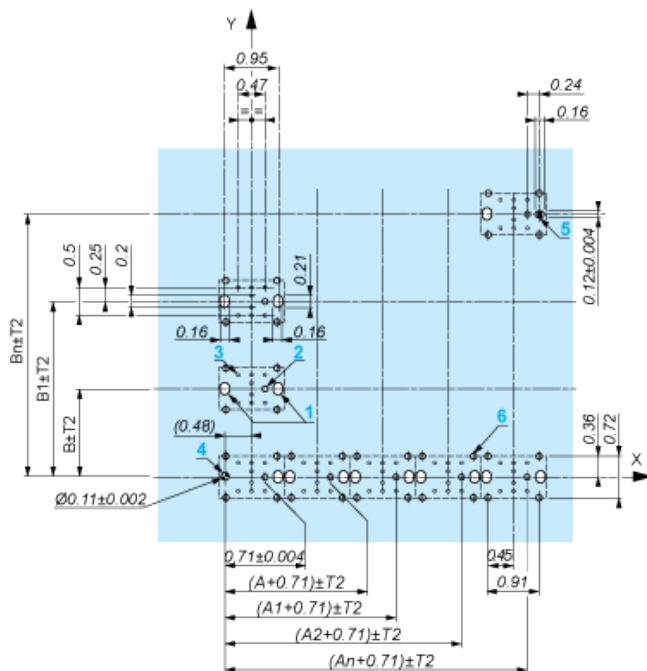
Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Panel Cut-outs (Viewed from Installer's Side)



Dimensions in mm





A: 1.18 in. min.

B: 1.57 in. min.

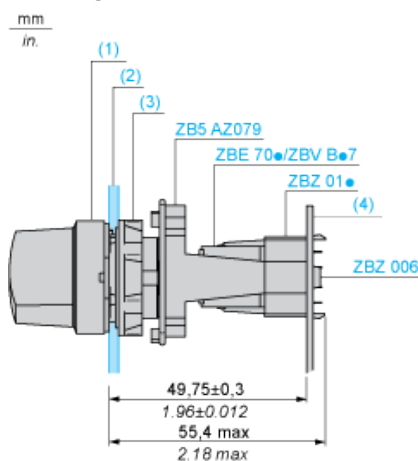
### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.:  $T1 + T2 = 0.3 \text{ mm max.}$

### Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm  $\pm 0.1$  / 0.88 in.  $\pm 0.004$
- Orientation of body/fixing collar ZB5AZ009:  $\pm 2^\circ 30'$  (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked **a** and **b** are diagonally opposed and must align with those marked **4** and **5**.



(1) Head ZB5AD•

(2) Panel

(2) Nut

(4) Printed circuit board

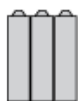
### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05$  / 0.09 in.  $\pm 0.002$  for centring adapter ZBZ01•
- 3 8  $\times \varnothing 1.2 \text{ mm}$  / 0.05 in. holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05$  / 0.11 in.  $\pm 0.002$ , for aligning the printed circuit board (with cut-out marked **a**)

- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked **b**)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

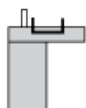
Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01•.

## Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

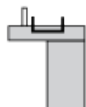


## Electrical Composition Corresponding to Code C15

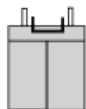
1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



## Legend

Single contact



Double contact



Light block



Possible location

