



### Primær

Produktsortiment	Harmony XB5
Produkttype	Head for illuminated push-button
Enhedens korte navn	ZB5
Kompatibilitet	Integral LED
Frontringsmateriale	Kunststof
Montagediameter	22 mm
Salg pr udelelig antal	1
Shape af signaling enhed hoved	Rund
Operatørtype	Fjederretur
Opratørprofil	Orange flush umærket
Yderligere operatørplysning	Med plai lens

### Alternativ

Bredde	29 mm
Højde	29 mm
Dybde	30 mm
Vægt	0.017 kg
Modstand mod højtryksrensning	7000000 Pa ved 55 °C, distance: 0.1 m
Mekanisk holdbarhed	5000000 kredsløb
Stationsnavn	XALD 1...5 cut-outs XALK 2...5 cut-outs
Elektrisk composition kode	M1 til <= 6 kontakter benytter enkel blokke i forfra montage med integral LED M2 til <= 6 kontakter benytter enkel og dobbel blokke i forfra montage med integral LED M10 til <= 2 kontakter benytter enkel blokke i forfra montage med integral LED M6 til <= 2 kontakter benytter enkel blokke i forfra montage med integral LED og transformer MF1 til <= 2 kontakter benytter enkel blokke i forfra montage med integral LED MR1 til <= 2 kontakter benytter enkel blokke i front montage med integral LED

### Miljø

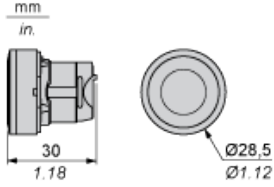
beskyttelsesbehandling	TC
optimal temperatur til opbevaring	-40...70 °C
anbefalede temperatur ved drift	-25...70 °C
klasse af beskyttelse against electric shock	Klasse II overholder IEC 60536
IP kapslingsklasse	IP66 overholder IEC 60529
NEMA kapslingsklasse	NEMA 13 NEMA 4X
IP kapslingsklasse	IK05 overholder EN 50102
standarder	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 JIS C 4520 UL 508 GB 14048.5 CSA C22.2 No 14
productcertificeringer	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listed
vibrationsmodstand	5 gn (f = 2...500 Hz) overholder IEC 60068-2-6

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**Contractual warranty**

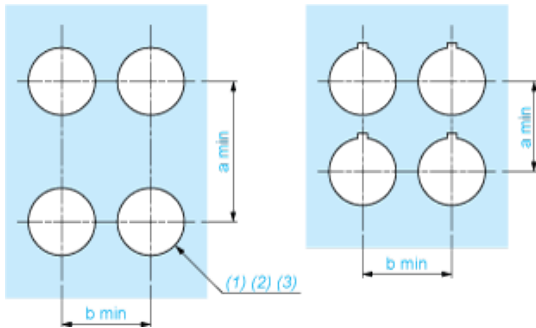
Warranty period 18 months

**Dimensions**



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

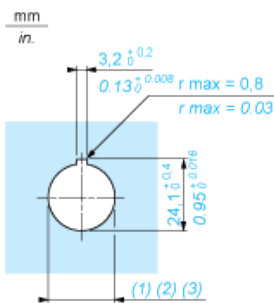
**Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board**



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

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

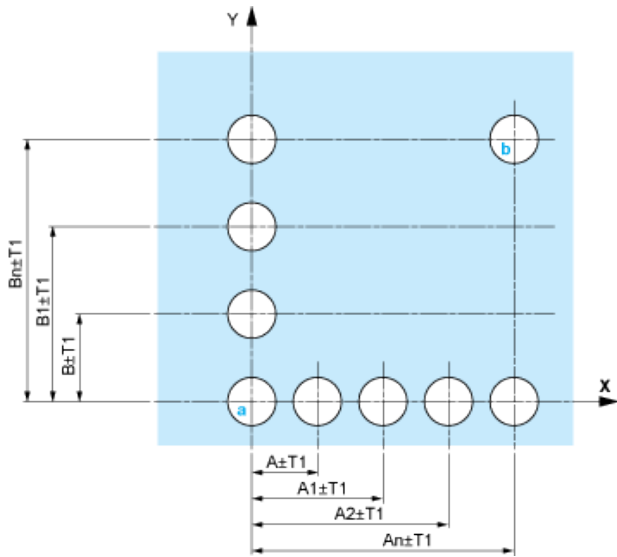
**Detail of Lug Recess**



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

**Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection**

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

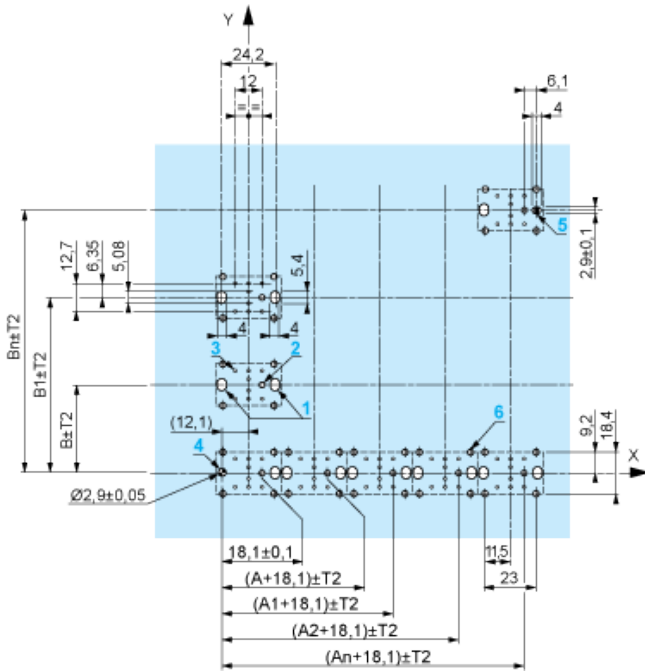


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

**Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)**

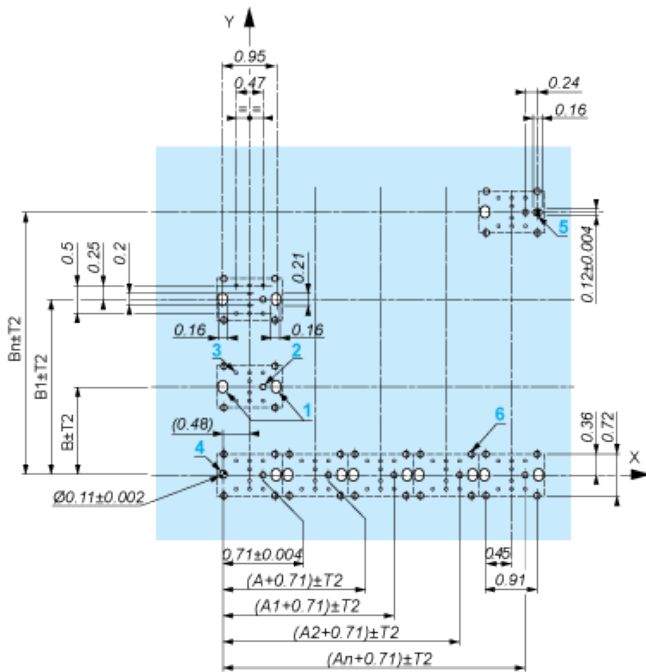
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

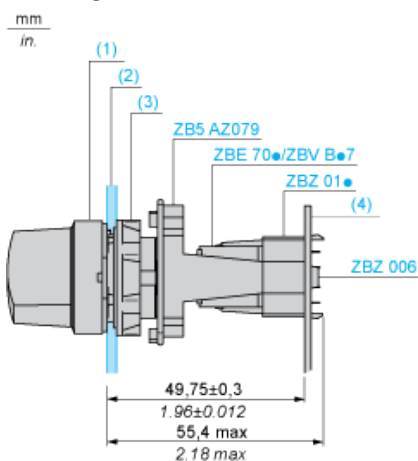
### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.:  $T_1 + T_2 = 0.3 \text{ mm max.}$

### 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°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
- (3) Nut
- (4) Printed circuit board

### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 3 8  $\times$   $\varnothing$  1.2 mm / 0.05 in. holes
- 4 1 hole  $\varnothing$  2.9 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  $\varnothing$  2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01•.