



Principal

Gama de produse	Harmony XB5
Tip produs sau componenta	Cap pentru selector iluminat
Compatibilitate produs	Universal LED
Nume scurt al dispozitivului	ZB5
Material rama	Plastic gri inchis
Diametrul de montaj	22 mm
Tip cap	Standard
Cantitate indivizibila de vanzare	1
Forma a capului unitatii de semnalizare	Rotund
Tip de operator	Fără revenire
Profil utilizator	Rosu mâner standard
Informatii de pozitie operator	2 pozitii 90°

Suplimentar

CAD latime globala	29 mm
CAD inaltime globala	29 mm
CAD adancime globala	43 mm
Greutate neta	0,016 kg
Durabilitate mecanica	1000000 cic
Numele statiei	XALD 1...5 predecupări XALK 2...5 predecupări
Cod compozitie electrica	M3 pentru <4 contacte utilizand monofilar bloc in montajin fata cu LED integral M6 pentru <2 contacte utilizand monofilar bloc in montajin fata cu integral LED and transformer M10 pentru <2 contacte utilizand monofilar bloc in montajin fata cu LED integral MF1 pentru <2 contacte utilizand monofilar bloc in montajin fata cu LED integral MR1 pentru <2 contacte utilizand monofilar bloc in montaj spate cu LED integral M4 pentru <4 contacte utilizand single and double bloc in montajin fata cu LED integral
Prezentare dispozitiv	Element de baza

Mediu

Tratament protector	TH
Temperatura ambietala pentru depozitare	-40...70 °C
Temperatura ambientala de functionare	-40...70 °C
Categorie de supratensiune	Clasa II conformitate cu IEC 60536
Grad de protectie IP	IP66 conformitate cu SR EN 60529 IP67 IP69 IP69K
Grad de protectie NEMA	NEMA 13 NEMA 4X
Rezistenta la spalare cu presiune inalta	7000000 Pa la 55 °C, distanta : 0.1 m
Grad de protectie IK	IK04 conforming to IEC 50102

Standarde	EN/IEC 60947-5-5 UL 60947-1 EN/IEC 60947-5-4 EN/IEC 60947-1 CSA C22.2 No 15 JIS C8201-5-1 SR EN 60947-5-1 JIS C8201-1
Certificari produs	GL[RETURN]LROS (Lloyds register of shipping)[RETURN]listat de UL[RETURN]BV[RETURN]DNV[RETURN]CSA
Rezistenta la vibratii	5 gn (f= 2...500 Hz) conformitate cu IEC 60068-2-6
Rezistenta la socuri	30 gn (durata = 18 ms) pentru half sine wave acceleration conformitate cu IEC 60068-2-27 50 gn (durata = 11 ms) pentru half sine wave acceleration conformitate cu IEC 60068-2-27

Unitati de ambalare

Unitate de masura pentru prima forma de impachetare	PCE
Numar unitati in prima forma de impachetare	1
Inaltime prima forma de impachetare	5,500 cm
Latime prima forma de impachetare	5,200 cm
Lungime prima forma de impachetare	3,300 cm
Greutate prima forma de impachetare	24,000 g
Unitate de masura pentru a doua forma de impachetare	S02
Numar unitati in a doua forma de impachetare	100
Inaltime a doua forma de impachetare	15,000 cm
Latime a doua forma de impachetare	30,000 cm
Lungime a doua forma de impachetare	40,000 cm
Greutate a doua forma de impachetare	2,600 kg

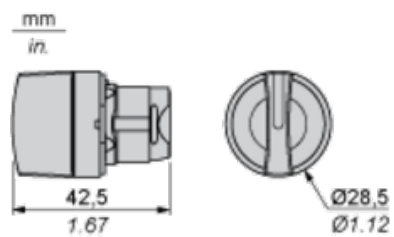
Sustenabilitatea ofertei

Regulamentul REACH	 Declaratia REACH
Conform REACH fara SVHC	Da
Directiva RoHS UE	Conformitate proactivă (Produs în afara domeniului de aplicare a EU RoHS)  Declaratia RoHS UE
Fara metale grele toxice	Da
Fara mercur	Da
Regulamentul RoHS China	 Declaratia RoHS China
Informatii privind scutirea de la RoHS	 Da

Garantie contractuala

Garantie	18 months
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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) $\varnothing 22.5$ 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 ($\varnothing 0.88 \text{ in. }_0^{+0.016}$)

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

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

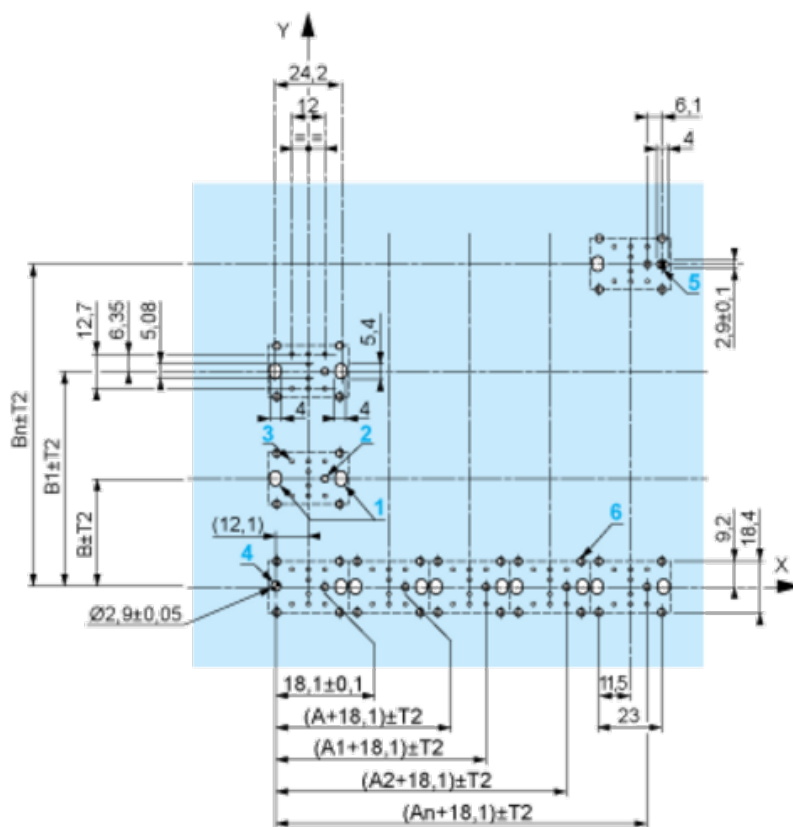


A: 30 mm min. / 1.18 in. min.

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.: $T1 + T2 = 0.3 \text{ mm max.}$

Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 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

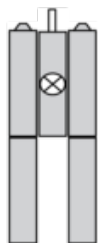
(4) Printed circuit board

Mounting of Adapter (Socket) ZBZ01•

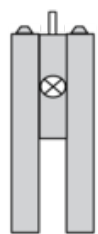
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ01•
- 3 $8 \times \varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$ holes
- 4 1 hole $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$, for 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 $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$ for clipping in adapter ZBZ01•

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

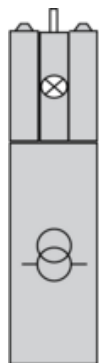
Electrical Composition Corresponding to Code M3



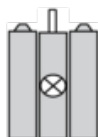
Electrical Composition Corresponding to Code M4



Electrical Composition Corresponding to Codes M6 and P2



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



Legend

Single contact

Double contact

Light block

Possible location



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



Push	Position	Top			
Bottom					
Location		Left	Right		
State		0	0		
Contacts	N/O	open	open		
N/C		closed	closed		

Position 45°



Push	Position	Top			
Bottom					
Location		Left	Right		
State		1	1		
Contacts	N/O		closed	closed	
N/C		open	open		