



Teknisk informasjon

Produktspekter	Harmony XB4
Produkt eller type komponent	Hode for nøkkelvendere
Kortnavn utstyr	ZB4
Innfatningsmateriale	Forkrommet metall
Montasjediameter	22 mm
Hode type	Standard
Salg per udelelig kvantitet	1
Formen på varslingsenhetens hode	Rund
Operatørprofil	Sort nøkkelbryter
Type arm/stempel	Fast
Informasjon om knappens stilling	3 posisjoner +/- 45°
Type nøkkellås	Key 455
Nøkkel uttrekksposisjon	VENSTRE

Komplementær

Bredde	29 mm
Høyde	29 mm
Dybde	72 mm
Vekt	0,098 kg
Resistens til høytrykksvask	7000000 Pa på 55 °C, distanse : 0.1 m
Mekanisk levetid	1000000 sykluser
Elektrisk sammensetningskode	C3 for <6 kontakter bruker Enkel blokker i frontmontering C4 for <6 kontakter bruker enkel og dobbel blokker i frontmontering C5 for <5 kontakter bruker Enkel blokker i frontmontering C6 for <5 kontakter bruker enkel og dobbel blokker i frontmontering C7 for <4 kontakter bruker Enkel blokker i frontmontering C8 for <4 kontakter bruker enkel og dobbel blokker i frontmontering C11 for <3 kontakter bruker Enkel blokker i frontmontering
Enhetens utseende	Basic element

Miljø

Overflatebeskyttelse	TH
Omgivelsestemperatur for lagring	-40...70 °C
Omgivelsestemperatur drift	-40...70 °C
Overspenningskategori	Klasse I i samsvar med IEC 60536
IP-grad	IP66 i samsvar med IEC 60529 IP67 IP69 IP69K
NEMA beskyttelsesgrad	NEMA 13 NEMA 4X
IK beskyttelsesklasse	IK06 with keyhole cover ZBGP conforming to IEC 50102

Standarder	CSA C22.2 No 14 EN/IEC 60947-5-1 GB 14048.5 EN/IEC 60947-1 UL 508 EN/IEC 60947-5-5 EN/IEC 60947-5-4
Produktsertifikater	CSA UL listet DNV GL LROS (Lloyds register of shipping) BV
Vibrasjonsmotstand	5 gn (f= 2...500 Hz) i samsvar med IEC 60068-2-6
Støtmotstand	30 gn (varighet = 18 ms) for halvsinusurve akselerasjon i samsvar med IEC 60068-2-27 50 gn (varighet = 11 ms) for halvsinusurve akselerasjon i samsvar med IEC 60068-2-27

Forpakkingsinformasjon

Enhetstype pakke 1	PCE
Antall enheter i pakke 1	1
Pakke 1 Høyde	3,4 cm
Pakke 1 Bredder	5,5 cm
Pakke 1 Vekt	9 cm
Package 1 Weight	102 g
Enhetstype pakke 2	BB1
Antall enheter i pakke 2	5
Pakke 2 Høyde	8,6 cm
Pakke 2 Bredder	3,3 cm
Pakke 2 Lengde	26 cm
Pakke 2 Vekt	519 g
Enhetstype pakke 3	S03
Antall enheter i pakke 3	100
Pakke 3 Høyde	30 cm
Pakke 3 Bredder	30 cm
Pakke 3 Lengde	40 cm
Pakke 3 Vekt	10,8 kg

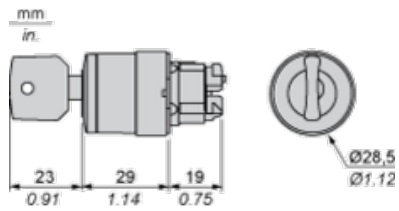
Bærekraftig

Produktets miljøstatus	Green Premium miljømerket produkt
REACH-regelverk	REACH-erklæring
EU RoHS-direktiv	Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet) EU RoHS-erklæring
Kvikksølvfri	Ja
Kinas RoHS-forskrift	Kinas RoHS-Erklæring
Informasjon om RoHS-unntak	Ja
Miljøinformasjon	Produktmiljøprofil
Produktets livssyklus	Informasjon Om Levetidsslutt

Garantiperiode

Garanti	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	Connection by Faston Connectors
	
<p>(1) Diameter on finished panel or support (2) 40 mm min. / 1.57 in. min. (3) 30 mm min. / 1.18 in. min. (4) $\varnothing 22.5$ mm / 0.89 in. recommended ($\varnothing 22.3$ mm $_0^{+0.4}$ / 0.88 in. $_0^{+0.016}$) (5) 45 mm min. / 1.78 in. min. (6) 32 mm min. / 1.26 in. min.</p>	

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 \pm 0.1 / 0.88 in. \pm 0.004
- Orientation of body/fixing collar ZB4 BZ009: $\pm 2^\circ 30'$ (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 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 (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

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



(1) Panel

(2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$ for centring adapter ZBZ 01•
- 3 8 × $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$ 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 ZBZ 01•

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 ZBZ 01•.

Electrical Composition Corresponding to Code C3

Electrical Composition Corresponding to Code C4

Electrical Composition Corresponding to Code C5

Electrical Composition Corresponding to Code C6

Electrical Composition Corresponding to Code C7

Electrical Composition Corresponding to Code C8

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

Legend

Single contact

Double contact

Light block

Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



Push	Position	Top			
Bottom					
Location		Left	Centre	Right	
State		1	1	0	
Contacts	N/O		closed	closed	open
N/C		open	open	closed	

Position 0°



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

Position 45°



Push	Position	Top			
Bottom					
Location		Left	Centre	Right	
State		0	1	1	
Contacts	N/O		open	closed	closed
N/C		closed	open	open	