

Product data sheet

Characteristics

ZB4BK1443

Rdeča glava osvetljenega izbirnega stikala Ø 22 2 položaja povratna vzmet



Glavno

Serijska izdelka	Harmony XB4
Izdelek ali sestavni del	Glavo za svetleče izbirno stikalo
Združljivost izdelkov	Univerzalni LED
Kratko ime naprave	ZB4
Material roba	Kromirana kovina
Tip glave	Standard
Montažni premer	22,5 Mm
Prodaja na nedeljivo količino	1
Oblika glave signalne enote	Okroglo
Tip upravljanja	Od desne proti levi Povratna vzmet
Profil operaterja	Rdeča Standardna ročica
Pozicijske informacije za operaterja	2 položaja 90°
Pokrovček/upravljalnik ali barva leče	Rdeča

Komplementarno

CAD celotna širina	29 Mm
CAD celotna višina	29 Mm
CAD celotna globina	43 Mm
Teža izdelka	0,037 Kg
Odpornost proti visokotlačnemu čistilniku	7000000 Pa pri 55 °C, razdalja : 0,1 m
Mehanska vzdržljivost	500000 Ciklov
Koda električne sestave	M3 za <4 kontakti uporabaEnojni bloki vPrednja montaža zIntegrirana LED M6 za <2 kontakti uporabaEnojni bloki vPrednja montaža zIntegral LED in transformator M10 za <2 kontakti uporabaEnojni bloki vPrednja montaža zIntegrirana LED M4 za <4 kontakti uporabaEnojni in dvojni bloki vPrednja montaža zIntegrirana LED
Predstavitev naprave	Osnovni element

Okolje

Zaščitna obdelava	TH
Temperatura okoliškega zraka za skladiščenje	-40...70 °C
Temperatura okoliškega zraka za delovanje	-40...70 °C
Prenapetostna kategorija	Razred I v skladu s/zIEC 60536
IP stopnja zaščite	IP66 v skladu s/zIEC 60529 IP67 IP69 IP69K
Stopnja zaščite NEMA	NEMA 13 NEMA 4X
IK stopnja zaščite	IK04 v skladu s/zIEC 50102

Standardi	JIS C8201-5-1 IEC 60947-1 IEC 60947-5-1 CSA C22.2 št. 14 IEC 60947-5-5 IEC 60947-5-4 UL 508 JIS C8201-1
Certifikati izdelkov	UL naveden[RETURN]CSA[RETURN]LR0S (Lloyds register pošiljke) [RETURN]GL[RETURN]BV[RETURN]DNV
Odpornost proti vibracijam	5 gn (f = 2...500 Hz) v skladu s/zIEC 60068-2-6
Odporno proti udarcu	30 Gn (trajanje =18 ms) zaPospešek s sinusnim polvaljem v skladu s/zIEC 60068-2-27 50 gn (trajanje =11 ms) zaPospešek s sinusnim polvaljem v skladu s/zIEC 60068-2-27

Embalažna enota

Embalažna enota Paketa 1	PCE
Število enot v Paketu 1	1
Paket 1 Višina	4,800 Cm
Paket 1 Širina	5,200 Cm
Paket 1 Dolžina	3,300 Cm
Paket 1 Teža	40,000 G
Embalažna enota Paketa 2	BB1
Število enot v Paketu 2	5
Paket 2 Višina	4,800 Cm
Paket 2 Širina	26,500 Cm
Paket 2 Dolžina	3,300 Cm
Paket 2 Teža	215,000 G
Embalažna enota Paketa 3	S03
Število enot v Paketu 3	250
Paket 3 Višina	30,000 Cm
Paket 3 Širina	30,000 Cm
Paket 3 Dolžina	40,000 Cm
Paket 3 Teža	11,326 Kg

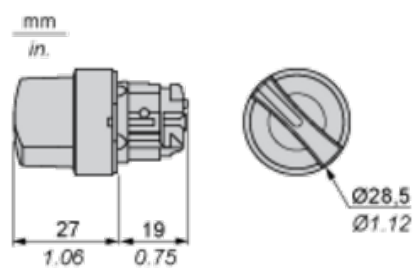
Trajnost ponudbe

Uredba REACH	 Izjava REACH
REACH, brez snovi SVHC	Da
Direktiva EU ROHS	Proaktivno zagotavljanje skladnosti (izdelek je zunaj področja uporabe direktive EU RoHS)  Izjava EU RoHS
Brez strupenih težkih kovin	Da
Brez živega srebra	Da
Uredba o RoHS za Kitajsko	 Izjava O RoHS Za Kitajsko
Informacije o izvzetju iz RoHS	 Da

Pogodbena garancija

Garancija	18 mesecev
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Dimensions

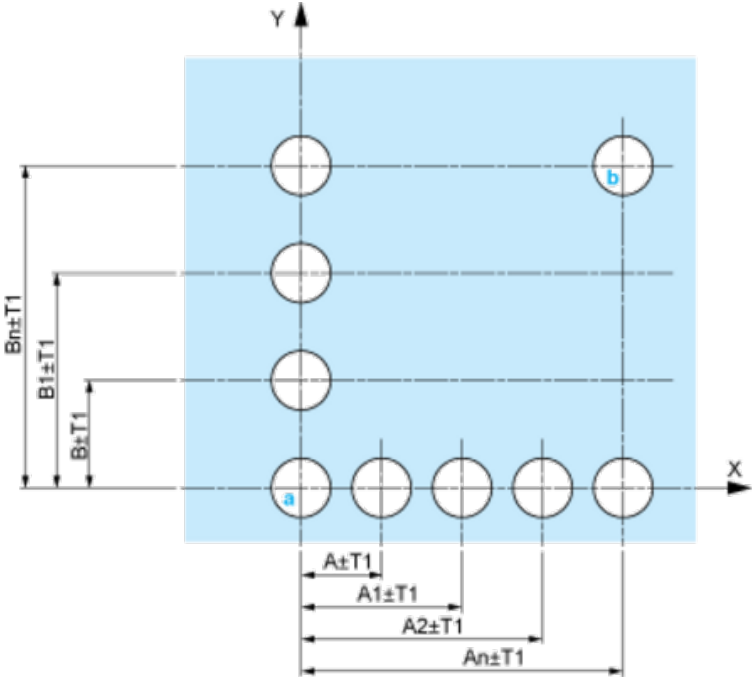


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board	Connection by Faston Connectors
(1) Diameter on finished panel or support (2) 40 mm min. / 1.57 in. min. (3) 30 mm min. / 1.18 in. min. (4) $\varnothing 22.5 \text{ mm}$ / 0.89 in. recommended ($\varnothing 22.3 \text{ mm}_0^{+0.4}$ / $0.88 \text{ in.}_0^{+0.016}$) (5) 45 mm min. / 1.78 in. min. (6) 32 mm min. / 1.26 in. min.	

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.

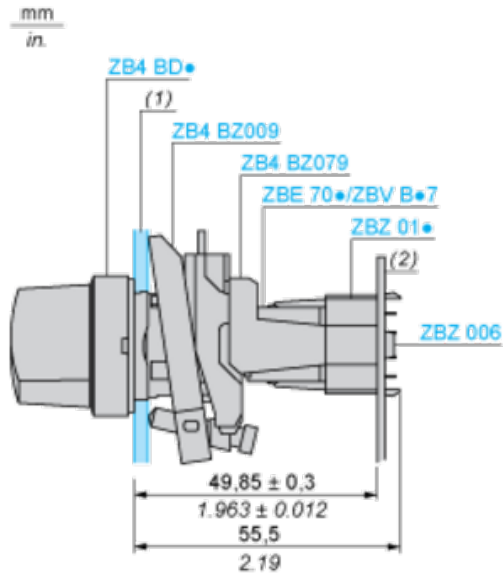
General Tolerances of the Panel and Printed Circuit Board

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

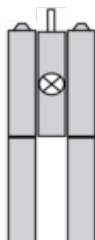
(2) Printed circuit board

Mounting of Adapter (Socket) ZBZ 01•

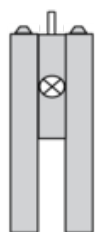
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole $\varnothing$ 2.4 mm $\pm$ 0.05 / 0.09 in. $\pm$ 0.002 for centring adapter ZBZ 01•
- 3 8 $\times$ $\varnothing$ 1.2 mm / 0.05 in. holes
- 4 1 hole $\varnothing$ 2.9 mm $\pm$ 0.05 / 0.11 in. $\pm$ 0.002, for aligning the printed circuit board (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 ZBZ 01•

Dimensions An + 18.1 relate to the $\varnothing$ 2.4 mm $\pm$ 0.05 / 0.09 in. $\pm$ 0.002 holes for centring adapter ZBZ 01•.

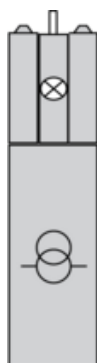
Electrical Composition Corresponding to Code M3



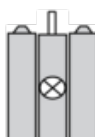
Electrical Composition Corresponding to Code M4



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		