

## Tehničke karakteristike proizvoda

### Karakteristike

## ZB5AK1283

Head for illuminated selector switch, Harmony XB5, plastic, yellow handle, 22mm, universal LED, 2 positions



### Osnovne informacije

|                                  |                                    |
|----------------------------------|------------------------------------|
| Grupa proizvoda                  | Harmony XB5                        |
| Tip proizvoda ili komponente     | Glava za svetleći izborni prekidač |
| Kompatibilnost proizvoda         | Universal LED                      |
| Kratko ime uređaja               | ZB5                                |
| Materijal podnožja               | Tamno siva plastika                |
| Prečnik za montiranje            | 22 mm                              |
| Prodaja po nedeljivim količinama | 1                                  |
| Oblik glave signalne jedinice    | Okrugla                            |
| Tip glave uređaja                | Bez povratka                       |
| Profil glave uređaja             | Žuta standardna ručica             |
| Informacija o poziciji glave     | 2 pozicije 90°                     |

### Dopunske informacije

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cad ukupna širina    | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cad ukupna visina    | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cad ukupna dubina    | 43 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Masa proizvoda       | 0,016 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mehanička trajnost   | 1000000 ciklusa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ime stanice          | XALD 1...5 izreza<br>XALK 2...5 izreza                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Kod                  | M3 za <4 kontakti koristeći jednostruke blokove u prednja ugradnja sa integrisan LED<br>M6 za <2 kontakti koristeći jednostruke blokove u prednja ugradnja sa integrisan LED i transformator<br>M10 za <2 kontakti koristeći jednostruke blokove u prednja ugradnja sa integrisan LED<br>MF1 za <2 kontakti koristeći jednostruke blokove u prednja ugradnja sa integrisan LED<br>MR1 za <2 kontakti koristeći jednostruke blokove u zadnja montaža sa integrisan LED<br>M4 za <4 kontakti koristeći jednostruke i dvostruke blokove u prednja ugradnja sa integrisan LED |
| Prezentacija uređaja | Osnovni element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Okruženje

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| Tretman zaštite                     | TH                                                  |
| Temperatura okoline za skladištenje | -40...70 °C                                         |
| Temperatura okoline za rad uređaja  | -40...70 °C                                         |
| Kategorija prenapona                | Klasa II u skladu sa IEC 60536                      |
| Ip stepen zaštite                   | IP66 u skladu sa IEC 60529<br>IP67<br>IP69<br>IP69K |

|                                             |                                                                                                                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nema stepen zaštite                         | NEMA 13<br>NEMA 4X                                                                                                                                                                                     |
| Otpornost na uređaj za pranje pod pritiskom | 7000000 Pa pri 55 °C, razdaljina : 0.1 m                                                                                                                                                               |
| Ik stepen zaštite                           | IK04 conforming to IEC 50102                                                                                                                                                                           |
| Standardi                                   | UL 508<br>EN/IEC 60947-5-4<br>CSA C22.2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-5<br>EN/IEC 60947-5-1<br>JIS C8201-5-1<br>JIS C8201-1                                                                |
| Sertifikacija proizvoda                     | DNV[RETURN]LROS (Lloyds register of shipping)<br>[RETURN]CSA[RETURN]BV[RETURN]GL[RETURN]UL odobrenje                                                                                                   |
| Otpornost na vibracije                      | 5 gn (f= 2...500 Hz) u skladu sa IEC 60068-2-6                                                                                                                                                         |
| Otpornost na udare                          | 30 gn (trajanje = 18 milisekundi) za ubrzanje polovine sinusne periode u skladu sa IEC 60068-2-27<br>50 gn (trajanje = 11 milisekundi) za ubrzanje polovine sinusne periode u skladu sa IEC 60068-2-27 |

## Pakovanje

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 3,4 cm   |
| Package 1 Width              | 5,4 cm   |
| Package 1 Length             | 5,8 cm   |
| Package 1 Weight             | 24 g     |
| Unit Type of Package 2       | BB1      |
| Number of Units in Package 2 | 5        |
| Package 2 Height             | 3,4 cm   |
| Package 2 Width              | 5,8 cm   |
| Package 2 Length             | 26,5 cm  |
| Package 2 Weight             | 120 g    |
| Unit Type of Package 3       | S02      |
| Number of Units in Package 3 | 100      |
| Package 3 Height             | 15 cm    |
| Package 3 Width              | 30 cm    |
| Package 3 Length             | 40 cm    |
| Package 3 Weight             | 2,689 kg |

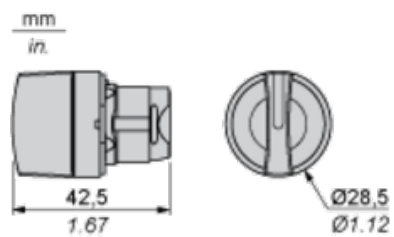
## Održivost ponude

|                              |                                                                                                                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status održive ponude        | Green Premium proizvod                                                                                                                                                                               |
| Propis REACH                 |  <a href="#">REACH Deklaracija</a>                                                                                |
| REACH bez SVHC               | Da                                                                                                                                                                                                   |
| EU RoHS direktiva            | Proaktivna usaglašenost (proizvod nije u zakonskom okviru direktive EU RoHS)  <a href="#">EU RoHS deklaracija</a> |
| Bez toksičnih teških metala  | Da                                                                                                                                                                                                   |
| Bez žive                     | Da                                                                                                                                                                                                   |
| RoHS regulativa za Kinu      |  <a href="#">RoHS Deklaracija Za Kinu</a>                                                                         |
| Informacije o RoHS izuzecima |  <a href="#">Da</a>                                                                                               |
| Izjava o zaštiti okoliša     |  <a href="#">Profil Ekološke Prihvatljivosti Proizvoda</a>                                                        |
| Profil cirkularnosti         |  <a href="#">Informacije O Kraju Radnog Veka</a>                                                                  |

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Dimensions

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## 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     |

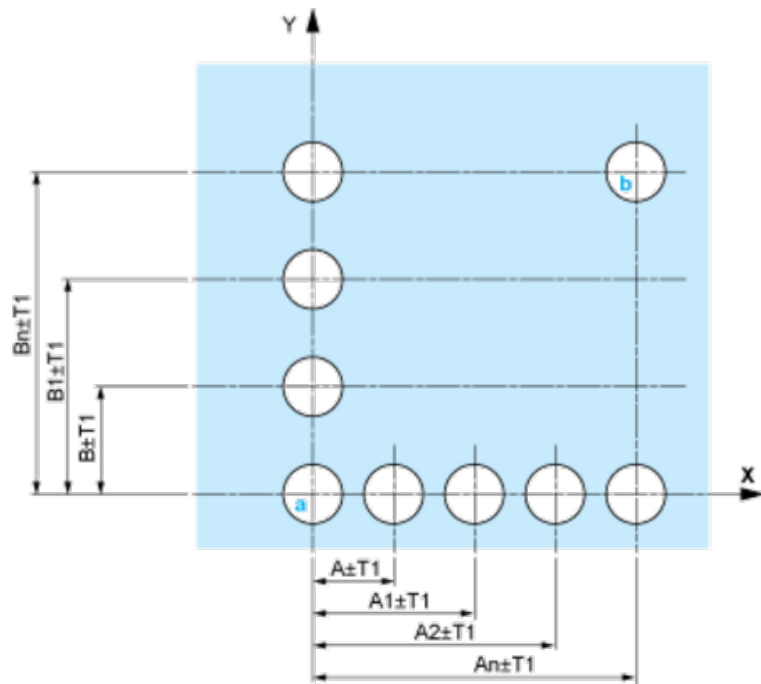
### Detail of Lug Recess



- (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  $\pm 0.1$  / 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•

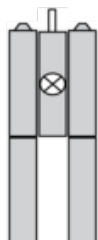
- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 3 8  $\times$   $\varnothing$  1.2 mm / 0.05 in. holes
- 4 1 hole  $\varnothing$  2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed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

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Electrical Composition Corresponding to Code M3

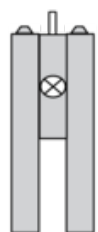
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Electrical Composition Corresponding to Code M4

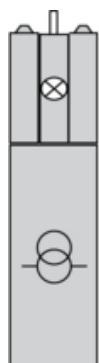
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Electrical Composition Corresponding to Codes M6 and P2

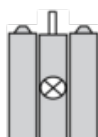
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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2

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Legend

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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   |                                                                                    |  |