



## Cap de Selector Negru Ø22, cu Opreire In 2 Pozitii

ZB4BD2

### Principale

|                                         |                      |
|-----------------------------------------|----------------------|
| gama de produse                         | Harmony XB4          |
| Tip produs sau componenta               | Cap pentru selector  |
| nume scurt al dispozitivului            | ZB4                  |
| material rama                           | Metal cromat         |
| 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                       | Negru mâner standard |
| informatii de pozitie operator          | 2 pozitii 90°        |

### Suplimentare

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD latime globala                       | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAD inaltime globala                     | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAD adancime globala                     | 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| greutate neta                            | 0,04 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| rezistenta la spalare cu presiune inalta | 7000000 Pa la 55 °C, distanta : 0.1 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| durabilitate mecanica                    | 1000000 cic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| cod compozitie electrica                 | C3 pentru <6 contacte utilizand monofilar bloc in montajin fata<br>C4 pentru <6 contacte utilizand single and double bloc in montajin fata<br>C5 pentru <5 contacte utilizand monofilar bloc in montajin fata<br>C6 pentru <5 contacte utilizand single and double bloc in montajin fata<br>C7 pentru <4 contacte utilizand monofilar bloc in montajin fata<br>C8 pentru <4 contacte utilizand single and double bloc in montajin fata<br>C11 pentru <3 contacte utilizand monofilar bloc in montajin fata<br>C15 pentru <1 contacte utilizand monofilar bloc in montajin fata |
| 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              | Class I conforming to IEC 60536 |

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

|                        |                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| grad de protectie IP   | IP67 conformitate cu SR EN 60529<br>IP69<br>IP69K                                                                                                                                    |
| grad de protectie NEMA | NEMA 13<br>NEMA 4X                                                                                                                                                                   |
| grad de protectie IK   | IK06 conforming to IEC 50102                                                                                                                                                         |
| standarde              | JIS C8201-5-1<br>SR EN 60947-5-1<br>SR EN 60947-5-4<br>IEC 60947-1<br>CSA C22.2 No 15<br>IEC 60947-5-5<br>UL 60947-1<br>JIS C8201-1                                                  |
| certificari produs     | CSA<br>DNV<br>BV<br>LROS (Lloyds register of shipping)<br>listat de UL                                                                                                               |
| rezistenta la vibratii | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                                     |
| rezistenta la socuri   | 30 gn (durata = 18 ms) pentru half sine wave acceleration conformitate cu IEC 60068-2-27<br>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       |
| Număr de produse în pachet                            | 1         |
| Inaltime prima forma de impachetare                   | 3,500 cm  |
| Latime prima forma de impachetare                     | 5,400 cm  |
| Lungime prima forma de impachetare                    | 5,400 cm  |
| Greutate colet(Lbs)                                   | 44,000 g  |
| Unitate de masura pentru a doua forma de impachetare  | BB1       |
| Numar unitati in a doua forma de impachetare          | 5         |
| Inaltime a doua forma de impachetare                  | 5,200 cm  |
| Latime a doua forma de impachetare                    | 3,400 cm  |
| Lungime a doua forma de impachetare                   | 26,500 cm |
| Greutate a doua forma de impachetare                  | 224,000 g |
| Unitate de masura pentru a treia forma de impachetare | S03       |
| Numar unitati in a treia forma de impachetare         | 250       |
| Inaltime a treia forma de impachetare                 | 30,000 cm |
| Latime a treia forma de impachetare                   | 30,000 cm |
| Lungime a treia forma de impachetare                  | 40,000 cm |
| Greutate a treia forma de impachetare                 | 11,706 kg |

## Garanție contractuală

|                    |    |
|--------------------|----|
| Garantie (in luni) | 18 |
|--------------------|----|

Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

Environmental Data explicate >

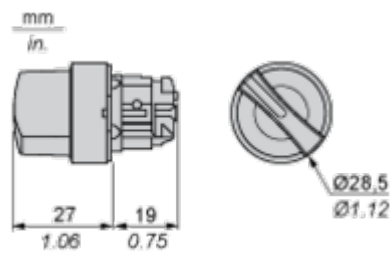
Cum evaluam sustenabilitatea produselor >

|                                              |                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------|
| Amprenta de mediu                            |                                                                           |
| Amprenta de carbon totala pe durata de viata | 1                                                                         |
| Raport de mediu                              | <a href="#">Profilul ambiental al produsului</a>                          |
| Use Better                                   |                                                                           |
| Materiale si ambalare                        |                                                                           |
| Pachet cu carton reciclabil                  | Nu                                                                        |
| Ambalaj fara plastic                         | Nu                                                                        |
| <a href="#">Directiva RoHS UE</a>            | Conformitate proactivă (Produs în afara domeniului de aplicare a EU RoHS) |
| Regulamentul REACH                           | <a href="#">Declaratia REACH</a>                                          |
| Use Again                                    |                                                                           |
| Reambalare si refabricare                    |                                                                           |
| Profil circularitate                         | <a href="#">Informatii privind sfarsitul duratei de viata</a>             |
| Preluare la sfarsitul duratei de viata       | Da                                                                        |

Dimensions Drawings

Dimensions

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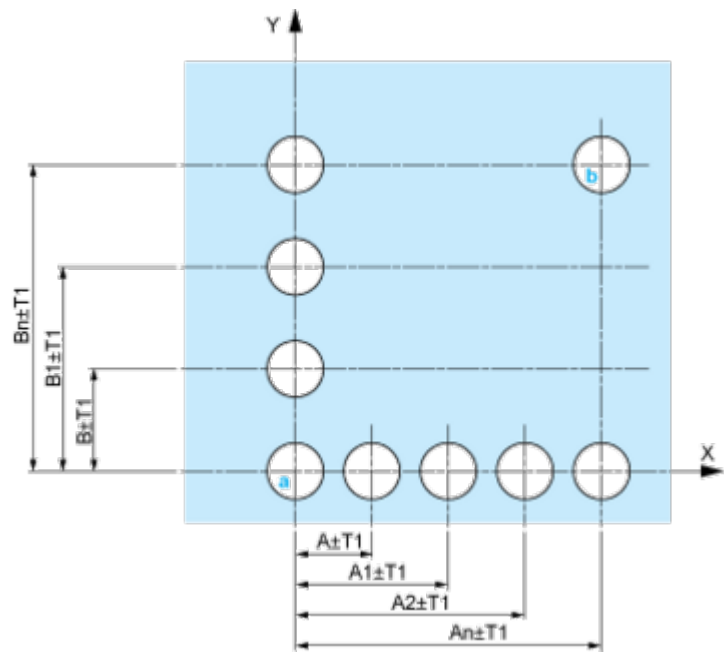
Mounting and Clearance

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</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                 |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

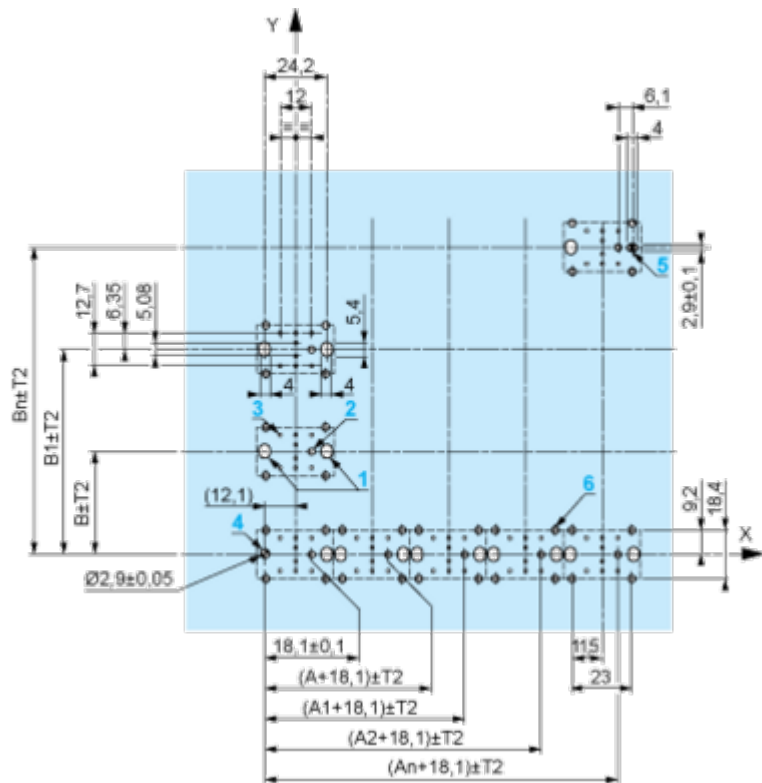
Panel Cut-outs (Viewed from Installer’s Side)



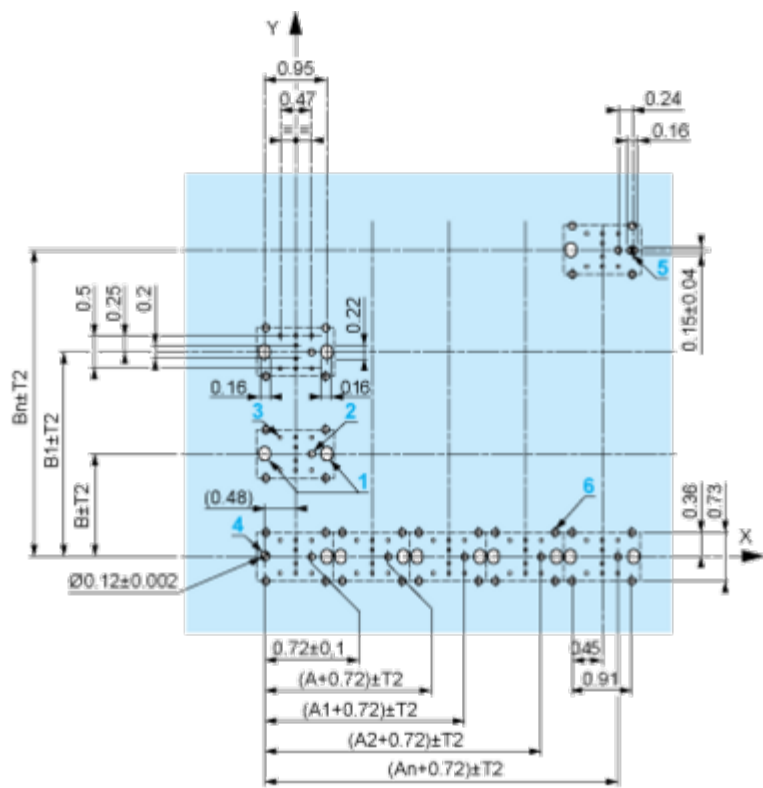
A: 30 mm min. / 1.18 in. min.  
B: 40 mm min. / 1.57 in. min.

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.

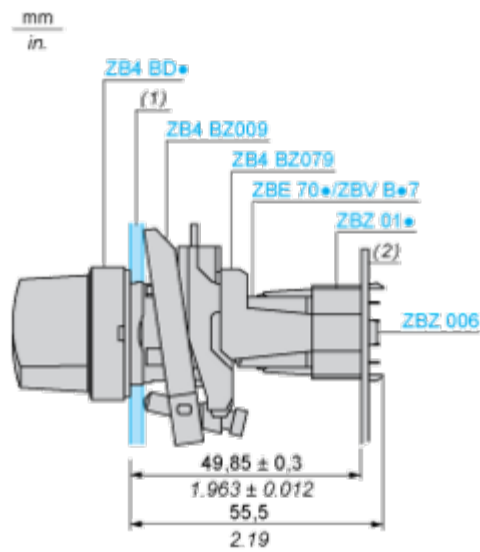
### General Tolerances of the Panel and Printed Circuit Board

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 Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 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 Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ 01•.



Technical Description

Electrical Composition Corresponding to Code C3

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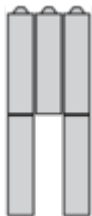
Electrical Composition Corresponding to Code C4

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Electrical Composition Corresponding to Code C5

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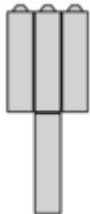


Electrical Composition Corresponding to Code C6



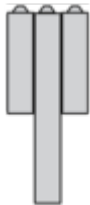
Electrical Composition Corresponding to Code C7

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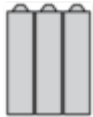


Electrical Composition Corresponding to Code C8

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



Electrical Composition Corresponding to Code C15

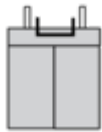
1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C





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   | Centre | Right  |
|          | State    |        | 0      | 0      | 0      |
|          |          |        |        |        |        |
| Contacts | N/O      |        | open   | open   | open   |
|          | N/C      |        | closed | closed | closed |

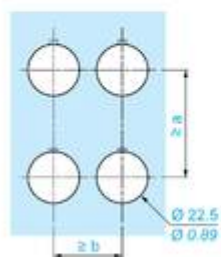
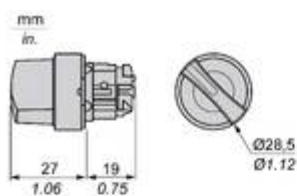
Position 45°



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

### Technical Illustration

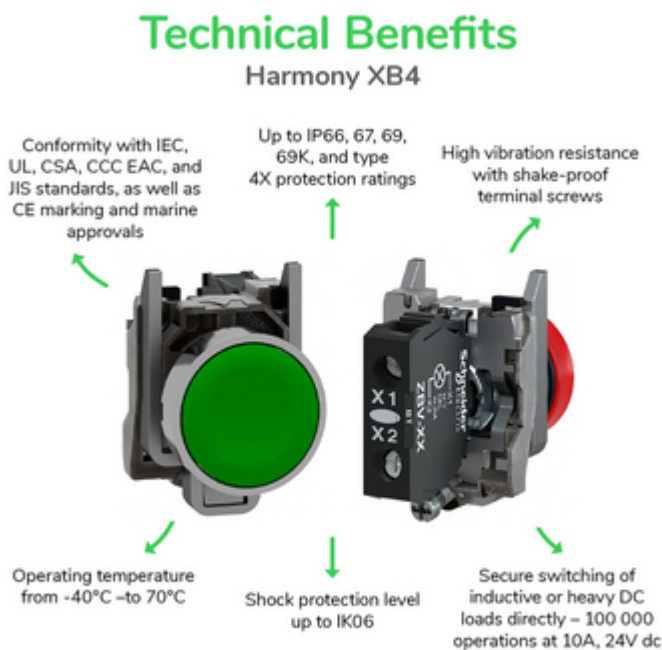
## Dimensions



|                                                                                   |                                                                                   | a (mm) | a (in.) | b (mm) | b (in.) |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|---------|--------|---------|
|  |  | 40     | 1.57    | 30     | 1.18    |
| ZBE.....                                                                          | ZBV.....                                                                          |        |         |        |         |
|  |  | 45     | 1.77    | 32     | 1.26    |
| ZBE.....3                                                                         | ZBV.....3                                                                         |        |         |        |         |
|  |  | 40     | 1.57    | 30     | 1.18    |
| ZBE.....4                                                                         | ZBV.....4                                                                         |        |         |        |         |
|  |  | 50     | 1.97    | 30     | 1.18    |
| ZBE.....5                                                                         | ZBV.....5                                                                         |        |         |        |         |
|  |  | 40     | 1.57    | 30     | 1.18    |
| ZBE.....9                                                                         | ZBV.....9                                                                         |        |         |        |         |
|  |  | 40     | 1.57    | 30     | 1.18    |
| ZBRV1                                                                             | ZBRV1                                                                             |        |         |        |         |

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

### Features

Harmony XB4



Quick and easy assembly and disassembly



Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board



Excellent mechanical connection with operator head



Large set of accessories to customize your panels



Robustness to withstand harsh environments



Image of product / Alternate images

Alternative

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