



## Kop voor keuzeschakelaar, 3 standen, Ø22mm, Zwart chroom

ZB4BD3

EAN Code: 3389110888966

Prijs: 11,90 EUR

### Hoofd

|                                    |                          |
|------------------------------------|--------------------------|
| range of product                   | Harmony XB4              |
| product or component type          | Kop voor keuzeschakelaar |
| device short name                  | ZB4                      |
| kraag materiaal                    | Verchroomd metaal        |
| bevestigingsdiameter               | 22 mm                    |
| koptype                            | Standaard                |
| verkoop per ondeelbare hoeveelheid | 1                        |
| vorm van kop signaleringseenheid   | Rond                     |
| type operator                      | blijven                  |
| operator profiel                   | Zwart standaard hendel   |
| informatie positie operator        | 3 standen +/- 45°        |

### Complementair

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD totale breedte             | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CAD totale hoogte              | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CAD totale diepte              | 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| net weight                     | 0,04 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| weerstand hoge druk drukring   | 7000000 Pa bij 55 °C, afstand: 0.1 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| mechanical durability          | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| elektrische samenstellingscode | C3 voor <6 contacten met enkelvoudig blokken in vooraan gemonteerd<br>C4 voor <6 contacten met enkelvoudig en dubbel blokken in vooraan gemonteerd<br>C5 voor <5 contacten met enkelvoudig blokken in vooraan gemonteerd<br>C6 voor <5 contacten met enkelvoudig en dubbel blokken in vooraan gemonteerd<br>C7 voor <4 contacten met enkelvoudig blokken in vooraan gemonteerd<br>C8 voor <4 contacten met enkelvoudig en dubbel blokken in vooraan gemonteerd<br>C11 voor <3 contacten met enkelvoudig blokken in vooraan gemonteerd |
| product presentatie            | Basisonderdeel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### Omgeving

|                                       |                                  |
|---------------------------------------|----------------------------------|
| beschermende behandeling              | TH                               |
| ambient air temperature for storage   | -40...70 °C                      |
| ambient air temperature for operation | -40...70 °C                      |
| overvoltage category                  | Klasse I conforming to IEC 60536 |

De weergegeven prijs is de adviesprijs in euro excl. BTW. Deze kan onderhevig zijn aan korting. Neem contact op met uw lokale distributeur of detailhandel voor de daadwerkelijke prijs

Disclaimer: Deze documentatie is niet bedoeld als vervanging voor en mag niet worden gebruikt voor het bepalen van de geschiktheid of betrouwbaarheid van deze producten voor specifieke gebruikerstoepassingen

|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP beschermingsgraad   | IP67 conform aan IEC 60529<br>IP69<br>IP69K                                                                                                                          |
| NEMA beschermingsgraad | NEMA 13<br>NEMA 4X                                                                                                                                                   |
| IK-beschermingsgraad   | IK06 conforming to IEC 50102                                                                                                                                         |
| standards              | IEC 60947-5-5<br>IEC 60947-1<br>UL 508<br>CSA C22.2 Nr 14<br>IEC 60947-5-4<br>IEC 60947-5-1<br>JIS C8201-5-1<br>JIS C8201-1                                          |
| product certifications | CSA<br>DNV<br>BV<br>LROS (Lloyds register of shipping)<br>UL listed                                                                                                  |
| trilling bestendigheid | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                     |
| schokbestendigheid     | 30 gn (duur = 18 ms) voor halve sinusgolf versnelling conform aan IEC 60068-2-27<br>50 gn (duur = 11 ms) voor halve sinusgolf versnelling conform aan IEC 60068-2-27 |

## Verpakkingseenheid

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 3,600 cm  |
| Package 1 Width              | 5,300 cm  |
| Package 1 Length             | 5,300 cm  |
| Package 1 Weight             | 44,000 g  |
| Unit Type of Package 2       | BB1       |
| Number of Units in Package 2 | 5         |
| Package 2 Height             | 5,000 cm  |
| Package 2 Width              | 3,400 cm  |
| Package 2 Length             | 26,500 cm |
| Package 2 Weight             | 222,000 g |
| Unit Type of Package 3       | S03       |
| Number of Units in Package 3 | 250       |
| Package 3 Height             | 30,000 cm |
| Package 3 Width              | 30,000 cm |
| Package 3 Length             | 40,000 cm |
| Package 3 Weight             | 11,686 kg |

## contractuele waarborg

|          |           |
|----------|-----------|
| Garantie | 18 months |
|----------|-----------|

Environmental Data

Schneider Electric wil tegen 2050 de Net Zero-status hebben bereikt via partnerschappen in de toeleveringsketen, materialen met een lagere impact en circulariteit via onze doorlopende campagne "Use Better, Use Longer, Use Again" om de levensduur van producten en de recycleerbaarheid te verlengen.

[Uitleg van Environmental Data](#) >

[Hoe evalueren we de duurzaamheid van producten?](#) >

|  Milieuvoetafdruk |                                               |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Totale levenscyclus ecologische voetafdruk                                                         | 1                                             |
| Milieuprofiel van product (PEP)                                                                    | <a href="#">Milieuprofiel van het product</a> |

Use Better

|  Materialen en verpakking |                                                                          |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Pakket met gerecycleerd karton                                                                             | Nee                                                                      |
| Verpakkingen zonder kunststof                                                                              | Nee                                                                      |
| <a href="#">EU-richtlijn RoHS</a>                                                                          | Voldoet pro-actief (Product valt niet onder de EU RoHS juridische scope) |
| REACH-regelgeving                                                                                          | <a href="#">REACH-verklaring</a>                                         |

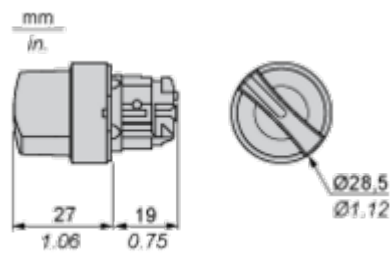
Use Again

|  Herverpakken en herfabriceren |                                                  |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Circulair Profiel                                                                                                 | <a href="#">Informatie over einde levensduur</a> |
| Terugname                                                                                                         | No                                               |

Dimensions Drawings

Dimensions

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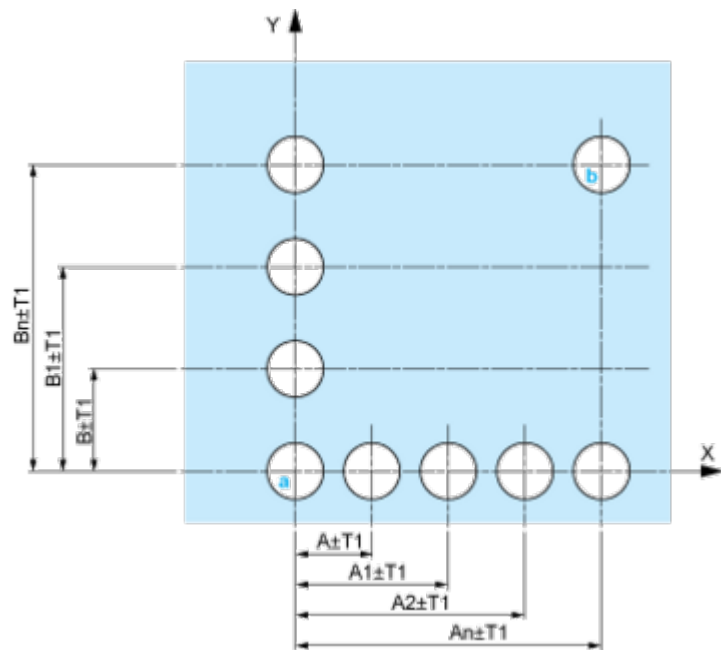
Mounting and Clearance

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

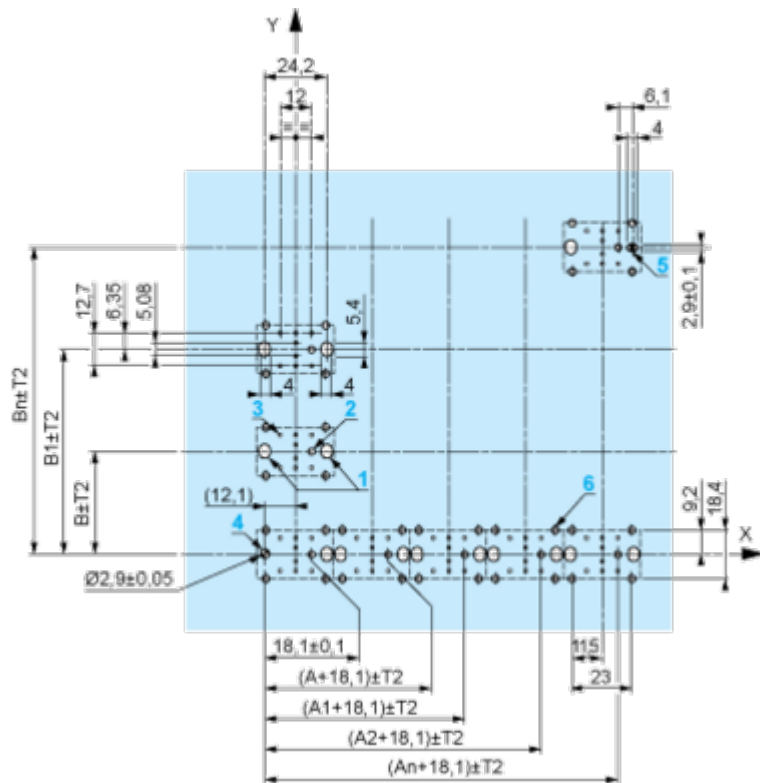
Panel Cut-outs (Viewed from Installer’s Side)



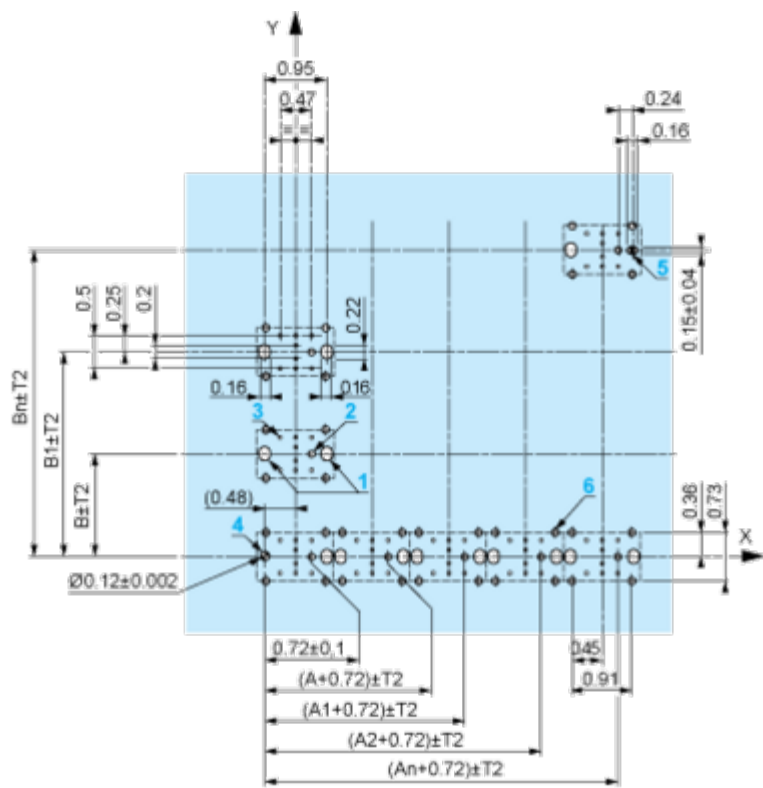
A: 30 mm min. / 1.18 in. min.  
B: 40 mm min. / 1.57 in. min.

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.

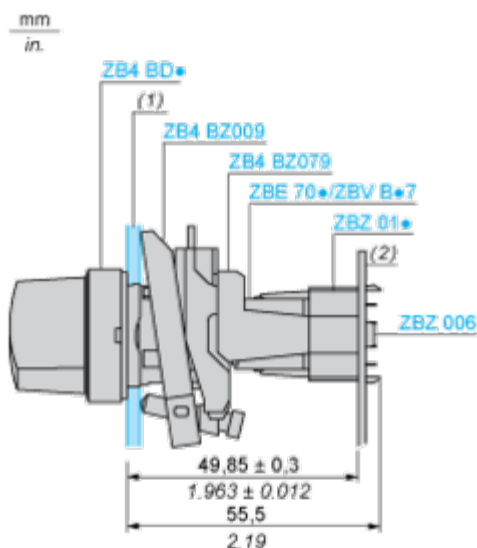
### General Tolerances of the Panel and Printed Circuit Board

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  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ 01•
- 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 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•.



Technical Description

Electrical Composition Corresponding to Code C3

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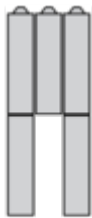
Electrical Composition Corresponding to Code C4

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Electrical Composition Corresponding to Code C5

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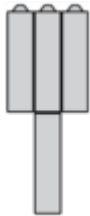
Electrical Composition Corresponding to Code C6

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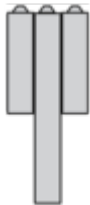
Electrical Composition Corresponding to Code C7

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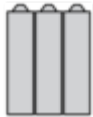


Electrical Composition Corresponding to Code C8

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



Legend

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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 |

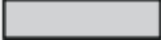
Position 0°



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

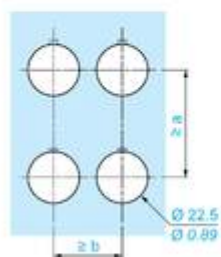
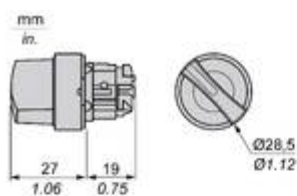
Position 45°



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

### 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

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### 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



Offer Marketing Illustration

Product benefits / Features

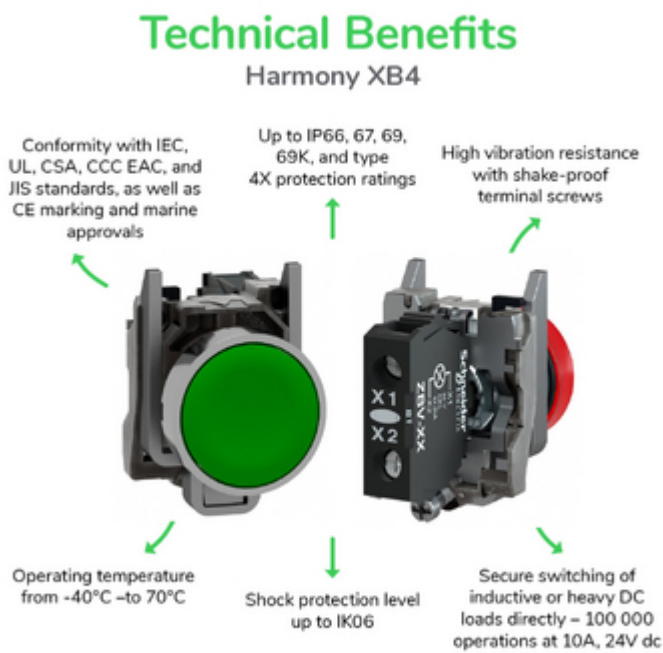


Image of product / Alternate images

Alternative

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