



### Teknisk informasjon

|                                  |                    |
|----------------------------------|--------------------|
| Produktspekter                   | Harmony XB4        |
| Produkt eller type komponent     | Hode for vendere   |
| Kortnavn utstyr                  | ZB4                |
| Innfnatningsmateriale            | Forkrommet metall  |
| Montasjediometer                 | 22 mm              |
| Hode type                        | Standard           |
| Salg per udelelig kvantitet      | 1                  |
| Formen på varslingsenhetens hode | Rund               |
| Type arm/stempel                 | fast               |
| Operatørprofil                   | Sort standard grep |
| Informasjon om knappens stilling | 2 posisjoner 90°   |

### Komplementær

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bredde                       | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Høyde                        | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Dybde                        | 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vekt                         | 0,04 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<br>C4 for <6 kontakter bruker enkel og dobbel blokker i frontmontering<br>C5 for <5 kontakter bruker Enkel blokker i frontmontering<br>C6 for <5 kontakter bruker enkel og dobbel blokker i frontmontering<br>C7 for <4 kontakter bruker Enkel blokker i frontmontering<br>C8 for <4 kontakter bruker enkel og dobbel blokker i frontmontering<br>C11 for <3 kontakter bruker Enkel blokker i frontmontering<br>C15 for <1 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                          | IP67 i samsvar med IEC 60529<br>IP69<br>IP69K                                                                               |
| NEMA beskyttelsesgrad            | NEMA 13<br>NEMA 4X                                                                                                          |
| Ik beskyttelsesklasse            | IK06 conforming to IEC 50102                                                                                                |
| Standarder                       | JIS C8201-5-1<br>IEC 60947-5-1<br>IEC 60947-5-4<br>IEC 60947-1<br>CSA C22.2 No 14<br>IEC 60947-5-5<br>UL 508<br>JIS C8201-1 |

|                     |                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Produktsertifikater | BV[RETURN]LROS (Lloyds register of shipping)[RETURN]DNV[RETURN]UL listet[RETURN]CSA[RETURN]GL                                                                                  |
| Vibrasjonsmotstand  | 5 gn (f= 2...500 Hz) i samsvar med IEC 60068-2-6                                                                                                                               |
| Støtmotstand        | 30 gn (varighet = 18 ms) for halvsinuskurve akselerasjon i samsvar med IEC 60068-2-27<br>50 gn (varighet = 11 ms) for halvsinuskurve akselerasjon i samsvar med IEC 60068-2-27 |

## Forpakkingsinformasjon

|                          |           |
|--------------------------|-----------|
| Enhetstype pakke 1       | PCE       |
| Antall enheter i pakke 1 | 1         |
| Pakke 1 Høyde            | 3,500 cm  |
| Pakke 1 Bredde           | 5,400 cm  |
| Pakke 1 Vekt             | 5,400 cm  |
| Package 1 Weight         | 44,000 g  |
| Enhetstype pakke 2       | BB1       |
| Antall enheter i pakke 2 | 5         |
| Pakke 2 Høyde            | 5,200 cm  |
| Pakke 2 Bredde           | 3,400 cm  |
| Pakke 2 Lengde           | 26,500 cm |
| Pakke 2 Vekt             | 224,000 g |
| Enhetstype pakke 3       | S03       |
| Antall enheter i pakke 3 | 250       |
| Pakke 3 Høyde            | 30,000 cm |
| Pakke 3 Bredde           | 30,000 cm |
| Pakke 3 Lengde           | 40,000 cm |
| Pakke 3 Vekt             | 11,706 kg |

## Bærekraftig

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Produktets miljøstatus       | Green Premium miljømerket produkt                                                                   |
| REACH-regelverk              | <a href="#">REACH-erklæring</a>                                                                     |
| REACH fri for SVHC           | Ja                                                                                                  |
| EU RoHS-direktiv             | Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet) <a href="#">EU RoHS-erklæring</a> |
| Fri for giftige tungmetaller | Ja                                                                                                  |
| Kvikksølvfri                 | Ja                                                                                                  |
| Kinas RoHS-forskrift         | <a href="#">Kinas RoHS-Erklæring</a>                                                                |
| Informasjon om RoHS-unntak   | <a href="#">Ja</a>                                                                                  |
| Miljøinformasjon             | <a href="#">Produktmiljøprofil</a>                                                                  |
| Produktets livssyklus        | <a href="#">Informasjon Om Levetidsslutt</a>                                                        |

## Logistisk informasjon

|                  |    |
|------------------|----|
| Opprinnelsesland | FR |
|------------------|----|

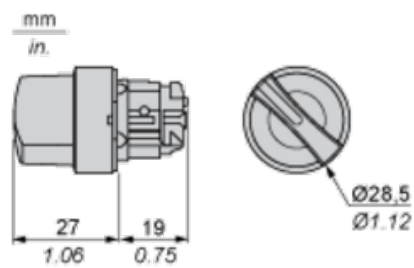
## Garantiperiode

|         |           |
|---------|-----------|
| Garanti | 18 months |
|---------|-----------|

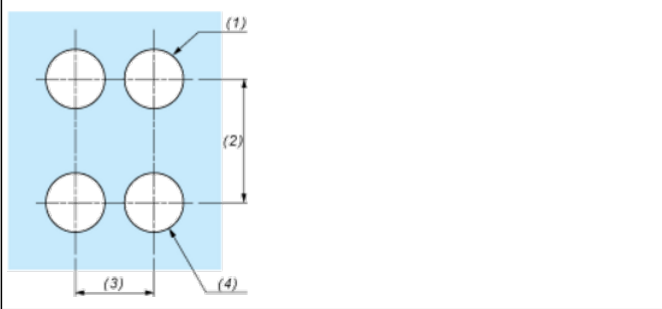
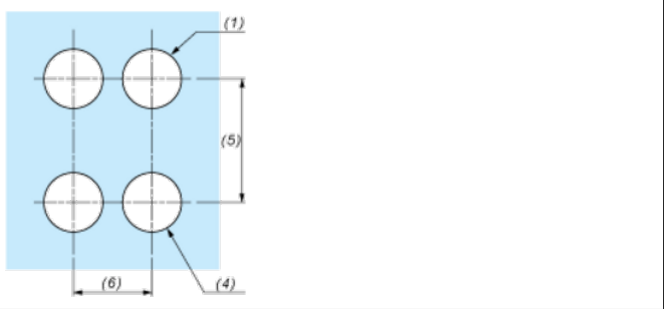
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Dimensions

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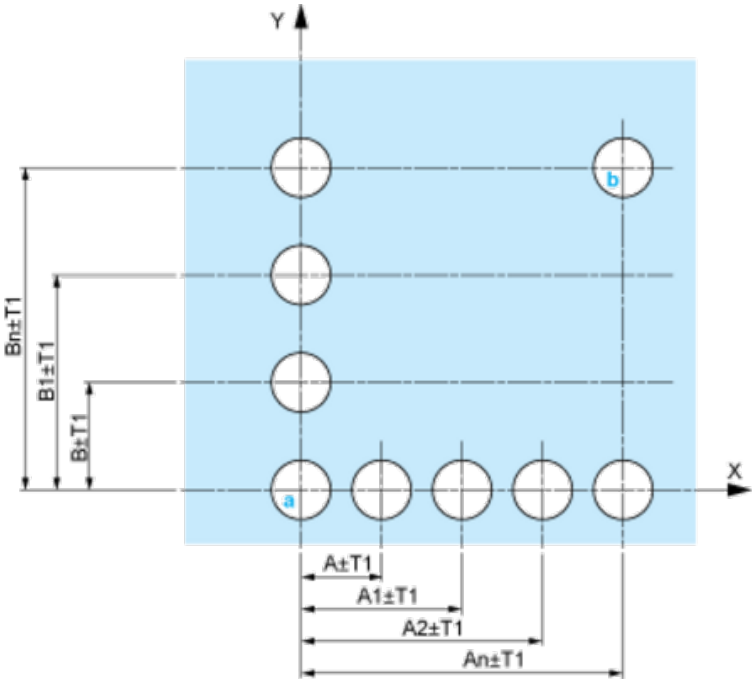


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board                                                                                                                                                                                                                                                                                              | 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) <math>\varnothing 22.5 \text{ mm}</math> / 0.89 in. recommended (<math>\varnothing 22.3 \text{ mm}_0^{+0.4}</math> / <math>0.88 \text{ in.}_0^{+0.016}</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

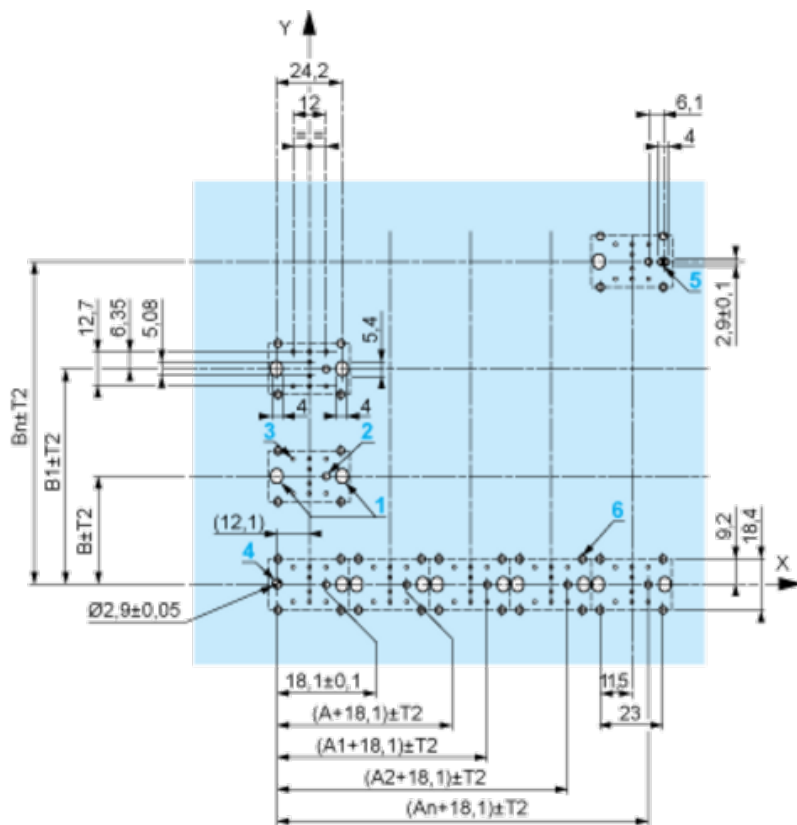
Panel Cut-outs (Viewed from Installer's Side)



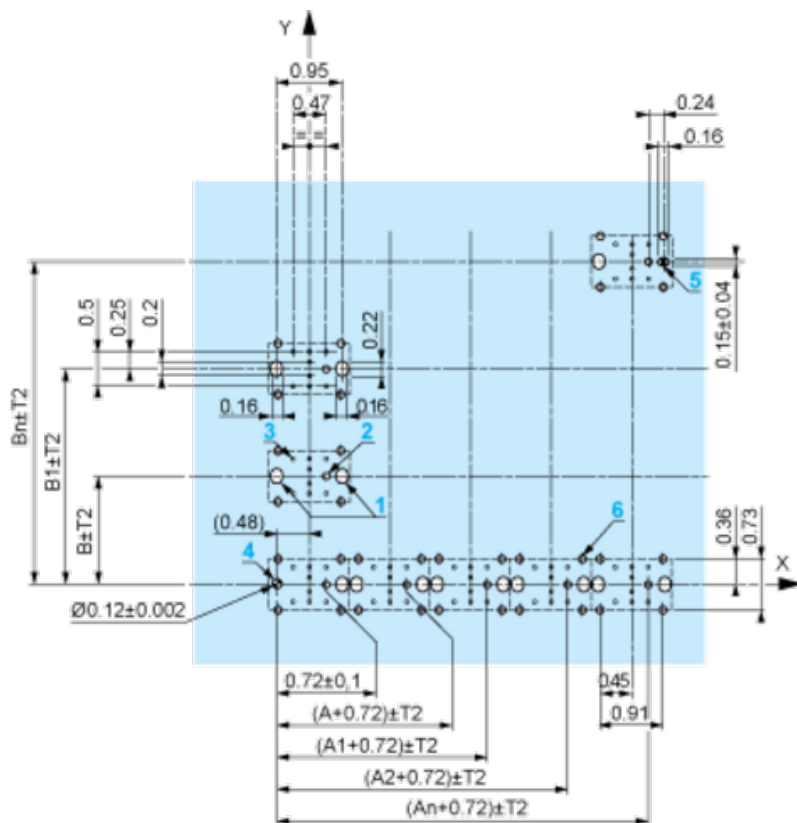
A: 30 mm min. / 1.18 in. min.  
B: 40 mm min. / 1.57 in. min.

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.

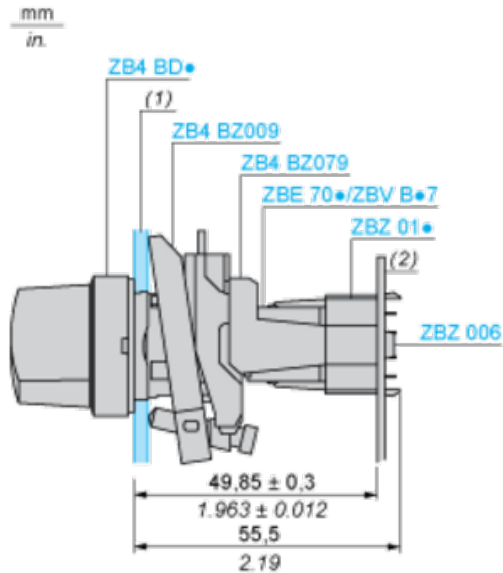
### General Tolerances of the Panel and Printed Circuit Board

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 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•.

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Electrical Composition Corresponding to Code C3

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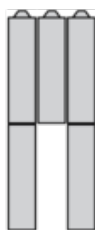
Electrical Composition Corresponding to Code C4

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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

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## Electrical Composition Corresponding to Code C15

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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   | <div></div> |      |        |        |        |
| Location |             | Left | Centre | Right  |        |
| State    |             | 1    | 1      | 1      |        |
| Contacts | N/O         |      | closed | closed | closed |
| N/C      |             | open | open   | open   |        |