



### Hlavní parametry

|                                |                                  |
|--------------------------------|----------------------------------|
| Řada výrobků                   | Harmony XB4                      |
| Typ produktu nebo součásti     | Hlava pro neprosvětlené tlačítko |
| Označení přístroje             | ZB4                              |
| Materiál ohruby                | Kovová chromovaná                |
| Průměr pro montáž              | 22 mm                            |
| Prodej v nedělitelném množství | 1                                |
| Typ hlavy                      | Standard                         |
| Tvar hlavice                   | Kruh                             |
| Typ ovládací hlavice           | S návratem                       |
| Provedení ovládače             | Zelená líčující, bílá MARCHE     |

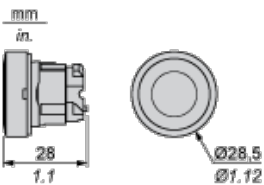
### Doplňk

|                      |                                                                                                                                                                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD celková šířka    | 29 mm                                                                                                                                                                                                                                                                                                                      |
| CAD celková výška    | 29 mm                                                                                                                                                                                                                                                                                                                      |
| CAD celková hloubka  | 28 mm                                                                                                                                                                                                                                                                                                                      |
| Mechanická životnost | 100000000 cykly                                                                                                                                                                                                                                                                                                            |
| Označení el. složení | C15 pro 1 kontakty použitím jednoduchý bloky v čelní montáž<br>C15 pro 1 kontakty použitím jednoduchý bloky v čelní montáž<br>C11 pro 3 kontakty použitím jednoduchý bloky v čelní montáž<br>C1 for 9 contacts using single blocks in front mounting<br>C2 for 9 contacts using single and double blocks in front mounting |

### Životní prostředí

|                                     |                                                                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| stupeň ochrany                      | TH                                                                                                                                                                       |
| teplota okolí pro uskladnění        | -40...70 °C                                                                                                                                                              |
| teplota okolního vzduchu pro provoz | -40...70 °C                                                                                                                                                              |
| kategorie přepětí                   | Třída I podle IEC 60536                                                                                                                                                  |
| stupeň krytí IP                     | IP67<br>IP66 podle IEC 60529<br>IP69K<br>IP69                                                                                                                            |
| stupeň krytí NEMA                   | NEMA 13<br>NEMA 4X                                                                                                                                                       |
| stupeň ochrany IK                   | IK06 podle IEC 50102                                                                                                                                                     |
| standards                           | EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>JIS C 4520<br>UL 508<br>CSA C22.2 č. 14                                                    |
| certifikace výrobku                 | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL listed                                                                                        |
| odolnost proti vibracím             | 5 gn (f = 2...500 Hz) podle IEC 60068-2-6                                                                                                                                |
| odolnost proti otřesům              | 30 gn (doba trvání = 18 ms) pro akcelerace polovina sin. vlny podle IEC 60068-2-27<br>50 gn (doba trvání = 11 ms) pro akcelerace polovina sin. vlny podle IEC 60068-2-27 |

Dimensions

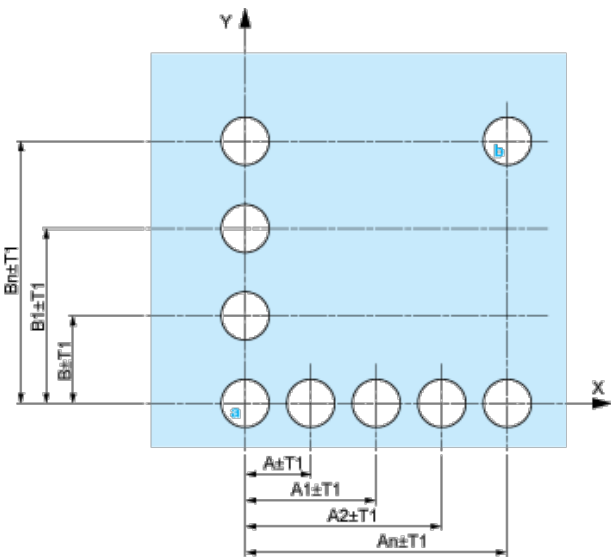


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board                                                                                                                                                                                                                                       | Connection by Faston Connectors |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                             |                                 |
| <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

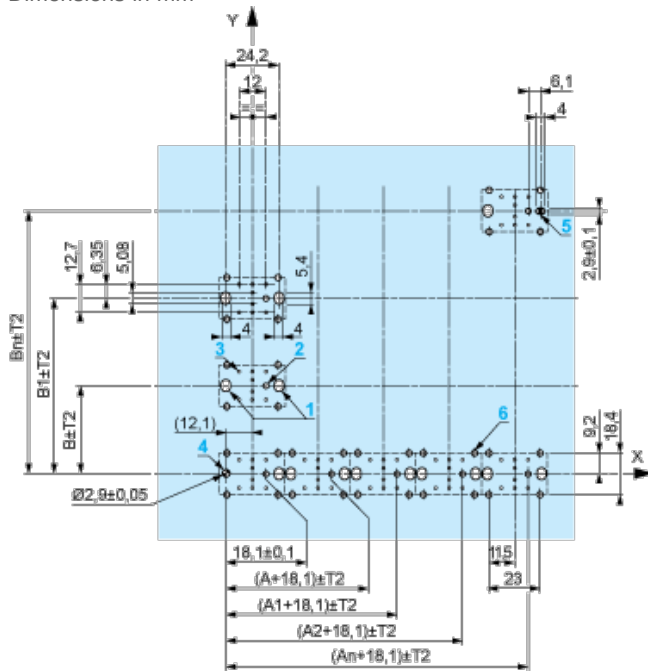
Panel Cut-outs (Viewed from Installer's Side)



- 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)

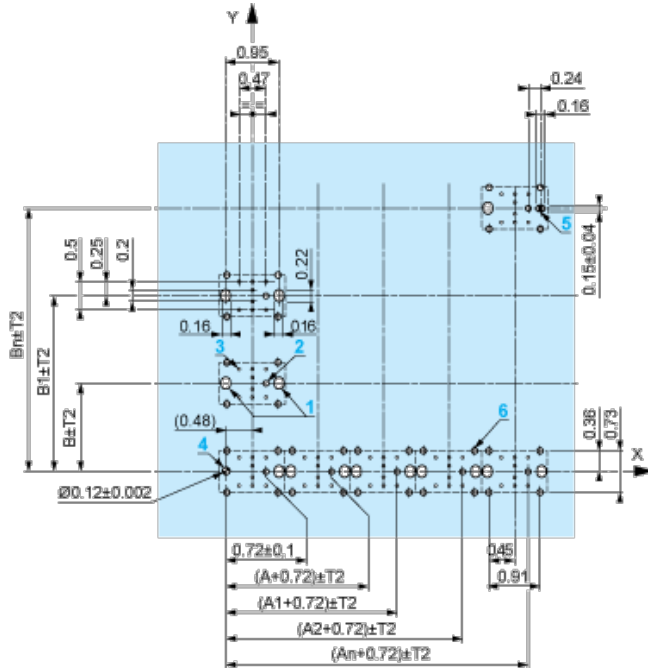
Dimensions in mm



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•.

#### Electrical Composition Corresponding to Code C1



#### Electrical Composition Corresponding to Code C2

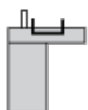


#### Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

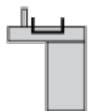


#### Electrical Composition Corresponding to Code C15

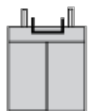
1 N/O



1 N/C



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



## Legend

Single contact



Double contact



Light block



Possible location

