

Statut commercial: Commercialisé



### Principales

|  |                                  |
|--|----------------------------------|
| Gamme de produits                            | Harmony XB4                      |
| Fonction produit                             | Tête de bouton-poussoir lumineux |
| Nom abrégé de l'appareil                     | ZB4                              |
| Accessoires associés                         | BA 9s                            |
| Matériau de la collerette                    | Métal plaqué chrome              |
| Diamètre de fixation                         | 22 mm                            |
| Vente par quantité indivisible               | 1                                |
| Forme de la tête-de l'unité de signalisation | Rond                             |
| Type d'unité de commande                     | Rappel à ressort                 |
| Profil de l'unité de commande                | Bleu noyé non marqué             |
| Info supplémentaire de l'unité de commande   | Avec lentille normale            |

### Complémentaires

|                                   |  |
|-----------------------------------|--|
| Largeur hors tout CAO             | 29 mm  |
| Hauteur hors tout CAO             | 29 mm  |
| Profondeur hors tout CAO          | 32 mm  |
| Poids                             | 0.027 kg   |
| Tenue au nettoyage haute pression | 7000000 Pa à 55 °C, distance: 0,1 m  |
| Durée de vie mécanique            | 10000000 cycle   |
| Code de composition électrique    | M7 pour <= 6 contacts using unique blocs dans montage avant avec BA 9s<br>M8 pour <= 6 contacts using simple et double blocs dans montage avant avec-BA 9s<br>M9 pour <= 2 contacts using unique blocs dans montage avant avec BA 9s et-transformateur |
| Groupe principal                  | Bouton-poussoir lumineux   |
| Groupe de produits                | Poussoir affleurant lumineux BA9s  |
| Couleur de la capsule             | Bleu   |
| Marquage                          | Sans marquage  |
| Code de comptabilité              | ZB4  |

### Environnement

|                                       |  |
|---------------------------------------|--|
| Traitement de protection              | TH   |
| Température ambiante pour le stockage | -40...70 °C  |
| Température de fonctionnement         | -40...55 °C  |
| Catégorie de surtension               | Classe I se conformer à IEC 60536                      |
| Degré de protection IP                | IP69<br>IP67<br>IP66 se conformer à IEC 60529<br>IP69K |
| Tenue à l'environnement NEMA          | NEMA 13<br>NEMA 4X                                     |
| Tenue aux chocs IK                    | IK06 se conformer à EN 50102                           |

|                            |  |
|----------------------------|--|
| Normes                     | EN/IEC 60947-1<br>UL 508<br>JIS C 4520<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-5<br>CSA C22.2 No 14  |
| Certifications du produit  | Listé UL<br>BV<br>GL<br>DNV<br>CSA<br>RINA<br>LROS (Lloyds register of shipping)   |
| Tenue aux vibrations       | 5 gn (f = 2...500 Hz) se conformer à IEC 60068-2-6   |
| Tenue aux chocs mécaniques | 30 gn (durée = 18 ms) pour accélération sur 1/2 sinusoïde se conformer à IEC 60068-2-27<br>50 gn (durée = 11 ms) pour accélération sur 1/2 sinusoïde se conformer à IEC 60068-2-27 |

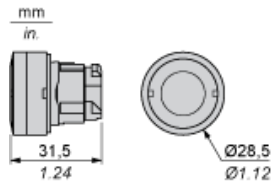
## Garantie contractuelle

|         |         |
|---------|---------|
| Période | 18 mois |
|---------|---------|

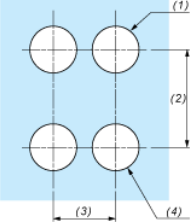
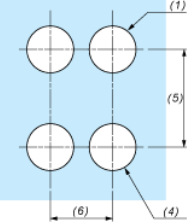
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Dimensions

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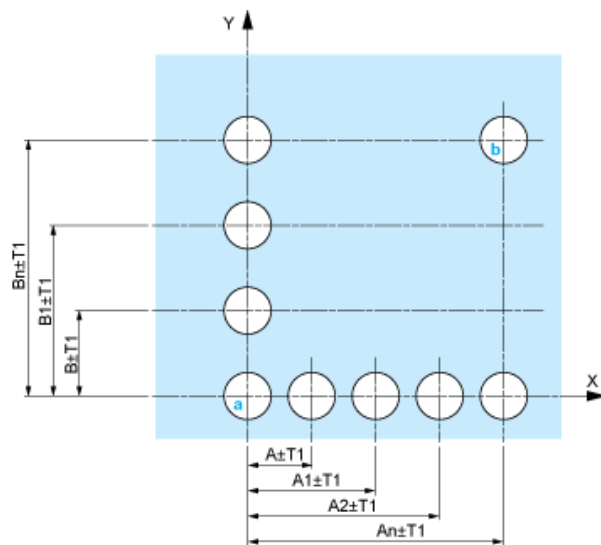


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board   | Connection by Pushbutton Connectors   |
|---|---|
|    |  |
| <p>(1) Diameter on finished panel or support<br/>                 (2) 40 mm min. / 1.57 in. min.<br/>                 (3) 30 mm min. / 1.18 in. min.<br/>                 (4) <math>\varnothing 22.5</math> mm / 0.89 in. recommended (<math>\varnothing 22.3</math> mm <math>^{+0.4}_0</math> / 0.88 in. <math>^{+0.016}_0</math>)<br/>                 (5) 45 mm min. / 1.78 in. min.<br/>                 (6) 32 mm min. / 1.26 in. min.</p> |   |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

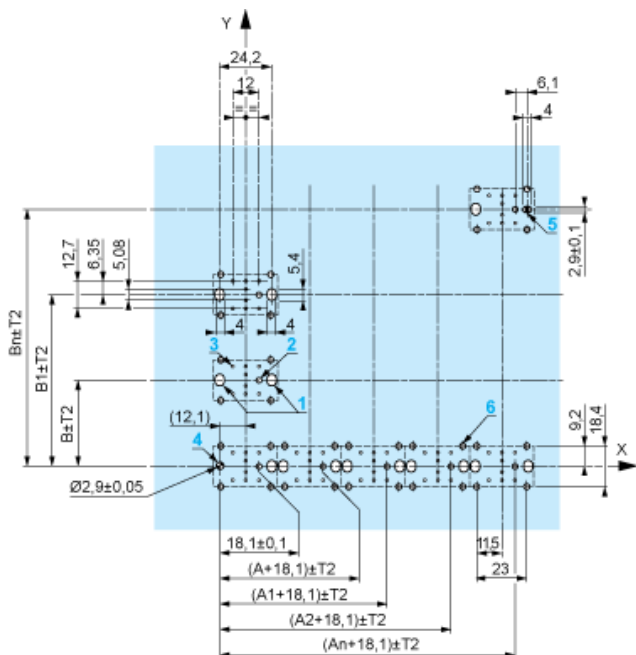
Panel Cut-outs (Viewed from Installer's Side)



- 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)

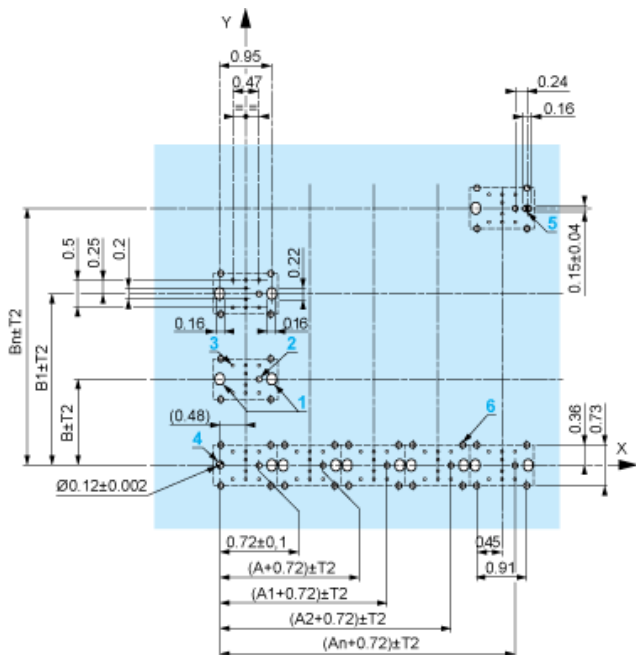
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

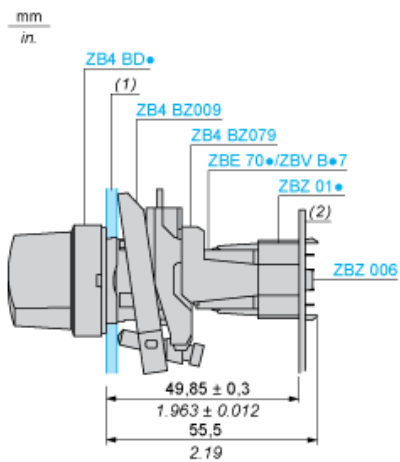
## General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in:  $T_1 + T_2 = 0.3 \text{ mm max.}$

## 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

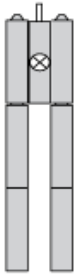
- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ 01
- 3 8 ×  $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$ , for 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.

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Electrical Composition Corresponding to Codes M1 and M7

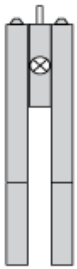
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Electrical Composition Corresponding to Codes M2 and M8

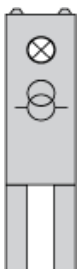
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Electrical Composition Corresponding to Code M9

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Legend

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Single contact



Double contact



Light block



Possible location

