

## ZB4BR2

siyah Ø60 mantar basmalı düğme başlığı Ø22 yaylı dönüş



### [TAG[MainCharacteristics]]

Ürün serisi	Harmony XB4
Ürün ya da bileşen tipi	Işıksız Buton için başlık
Cihaz kısa adı	ZB4
Şev malzemesi	Krom kaplı metal
Montaj çapı	22 mm
Bölünemez miktar başına satış	1
Sinyalleme birimi başlığı biçimi	Yuvarlak
Operatörün tipi	Yaylı dönüş
Operatör profili	Siyah mantar Ø 60 mm işaretsiz

### [TAG[ComplemCharacteristics]]

CAD genel genişliği	60 mm
CAD genel yüksekliği	60 mm
CAD genel derinliği	52 mm
Mekanik dayanıklılık	5000000 cycles
Elektrik yapısı kodu	C1 için <= 9 kontaklar kullanılarak tek bloklar ön montaj C2 için <= 9 kontaklar kullanılarak tek ve çift bloklar ön montaj C11 için <= 3 kontaklar kullanılarak tek bloklar ön montaj C15 için 1 kontaklar kullanılarak tek bloklar ön montaj

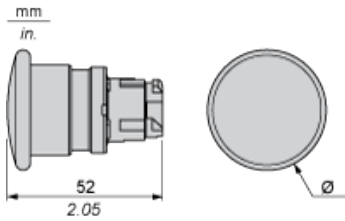
### [TAG[EnvCharacteristics]]

koruyucu bakım	TH
depolama için ortam hava sıcaklığı	-40...70 °C
çalışma için ortam hava sıcaklığı	-25...70 °C
aşırı gerilim kategorisi	Class I conforming to IEC 60536
IP koruma derecesi	IP66 uyumluluk standardı IEC 60529
NEMA koruma derecesi	NEMA 13 NEMA 4X
IK koruma derecesi	IK03 uyumluluk standardı IEC 50102
standartlar	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14
ürün sertifikaları	BV CSA DNV GL LROS (Lloyds register of shipping) RINA UL listeli
titreşim direnci	5 gn[Alan](f=[Alan]2...500 Hz) uyumluluk standardı IEC 60068-2-6
darbe dayanımı	30 gn (süre = 18 ms) için yarım sinüs dalgası hızlandırma uyumluluk standardı IEC 60068-2-27 50 gn (süre = 11 ms) için yarım sinüs dalgası hızlandırma uyumluluk standardı IEC 60068-2-27

### Contractual warranty

Süre	18 ay
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## Dimensions



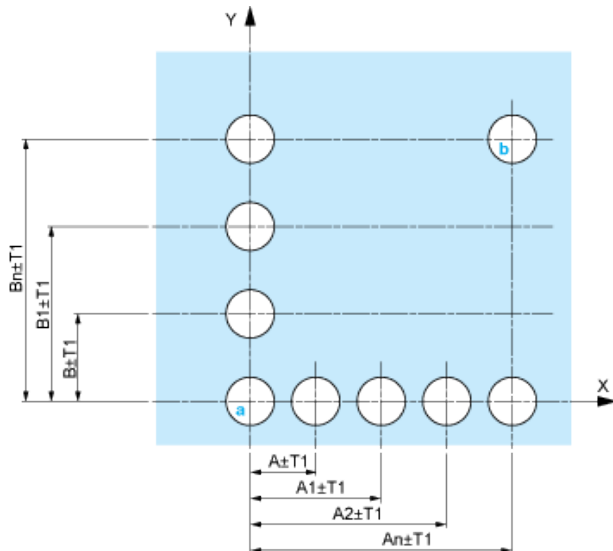
	Ø in mm	Ø in in.
ZB4BC•	40	1.57
ZB4BR•	60	2.36

## 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}^{+0.4}</math> / 0.88 in. <math>_{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)

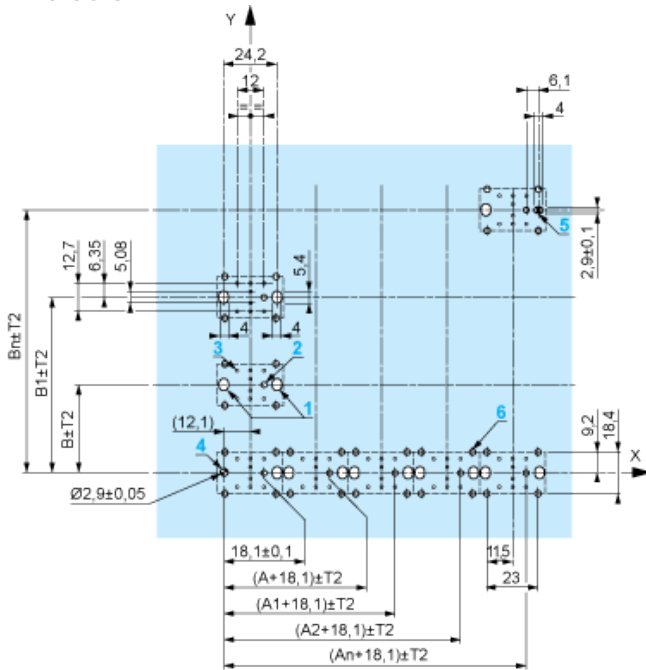


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

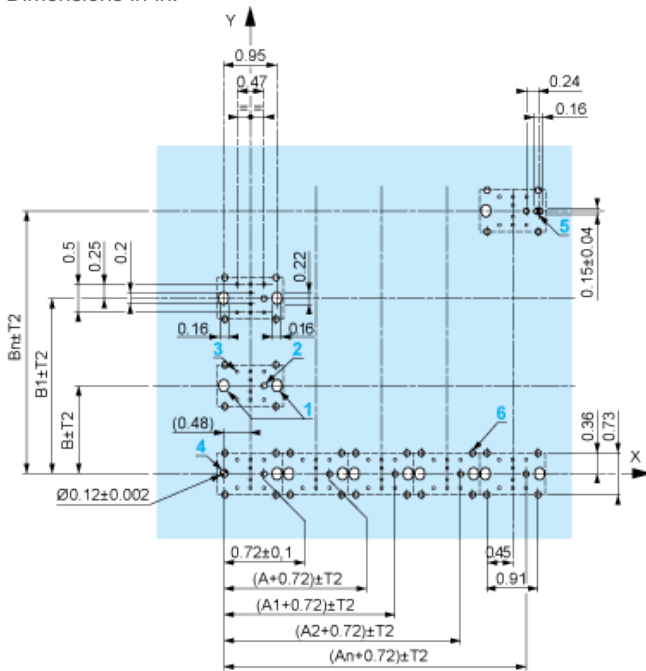
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



A: 1.18 in. min.

B: 1.57 in. min.

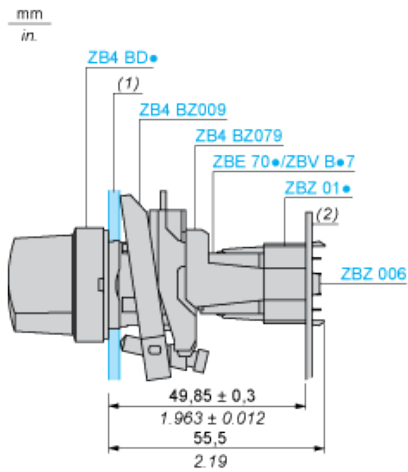
### General Tolerances of the Panel and Printed Circuit Board

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  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  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

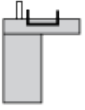


#### Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

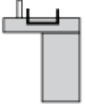


#### Electrical Composition Corresponding to Code C15

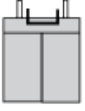
1 N/O



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

