

# Ürün verileri sayfası

Teknik Özellikler



## beyaz ışıklı mandal buton başlığı Ø22 2 konumlu sabit

ZB4BK1213

### Ana

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Ürün serisi                      | Harmony XB4                          |
| Ürün ya da bileşen tipi          | Işıklı selektör anahtarı için başlık |
| ürün uyumluluğu                  | Evrensel LED                         |
| Ürün grubu                       | ZB4                                  |
| şev malzemesi                    | Krom kaplı metal                     |
| başlık tipi                      | Standard                             |
| montaj çapı                      | 22 mm                                |
| bölünemez miktar başına satış    | 1                                    |
| sinyalleme birimi başlığı biçimi | Yuvarlak                             |
| operatörün tipi                  | sabit                                |
| operatör profili                 | Beyaz standart kol                   |
| operatör konum bilgisi           | 2 konum 90°                          |

### Tamamlayıcı

|                                  |                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD genel genişliği              | 29 mm                                                                                                                                                                                                                                                                                                                      |
| CAD genel yüksekliği             | 29 mm                                                                                                                                                                                                                                                                                                                      |
| CAD genel derinliği              | 43 mm                                                                                                                                                                                                                                                                                                                      |
| Ürün ağırlığı                    | 0,036 kg                                                                                                                                                                                                                                                                                                                   |
| yüksek basınçlı rondelaya direnç | 7000000 Pa -de 55 °C, mesafe: 0,1 m                                                                                                                                                                                                                                                                                        |
| Mekanik dayanıklılık             | 1000000 cycles                                                                                                                                                                                                                                                                                                             |
| elektrik yapısı kodu             | M3 için <4 kontaklar kullanılarak Tek bloklarön montajile entegre LED<br>M6 için <2 kontaklar kullanılarak Tek bloklarön montajile entegre LED ve transformatör<br>M10 için <2 kontaklar kullanılarak Tek bloklarön montajile entegre LED<br>M4 için <4 kontaklar kullanılarak tek ve çift bloklarön montajile entegre LED |
| cihaz sunumu                     | Temel elaman                                                                                                                                                                                                                                                                                                               |

### Ortam

|                                 |                            |
|---------------------------------|----------------------------|
| koruyucu bakım                  | TH                         |
| Depolama ortam koşulları        | -40...70 °C                |
| Nominal çalışma ortam sıcaklığı | -40...70 °C                |
| aşırı gerilim kategorisi        | Sınıf I 'e uygun IEC 60536 |

Sorumluluk Reddi: Bu belge, belirli kullanıcı uygulamaları için bu ürünlerin uygunluğu veya güvenliliğini belirlemek amacıyla kullanılamaz ve bunların yerini tutmayı amaçlamaz.

|                      |                                                                                                                                                                      |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP koruma derecesi   | IP66 'e uygunIEC 60529<br>IP67<br>IP69<br>IP69K                                                                                                                      |
| NEMA koruma derecesi | NEMA 13<br>NEMA 4X                                                                                                                                                   |
| IK koruma derecesi   | IK04 conforming to IEC 50102                                                                                                                                         |
| Standartlar          | EN/IEC 60947-5-1<br>JIS C8201-5-1<br>UL 508<br>EN/IEC 60947-5-5<br>EN/IEC 60947-1<br>CSA C22.2 No 14<br>EN/IEC 60947-5-4<br>JIS C8201-1                              |
| Ürün sertifikaları   | UL listeli<br>BV<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>CSA                                                                                           |
| titreşim direnci     | 5 gn (f= 2...500 Hz) 'e uygunIEC 60068-2-6                                                                                                                           |
| darbe dayanımı       | 30 gn (süre = 18 ms) için yarım sinüs dalgası hızlandırma 'e uygunIEC 60068-2-27<br>50 gn (süre = 11 ms) için yarım sinüs dalgası hızlandırma 'e uygunIEC 60068-2-27 |

## Paketleme üniteleri

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 3,500 cm  |
| Package 1 Width              | 5,300 cm  |
| Package 1 Length             | 5,400 cm  |
| Package 1 Weight             | 41,000 g  |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 250       |
| Package 2 Height             | 30,000 cm |
| Package 2 Width              | 30,000 cm |
| Package 2 Length             | 40,000 cm |
| Package 2 Weight             | 10,889 kg |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 2000      |
| Package 3 Height             | 75,000 cm |
| Package 3 Width              | 60,000 cm |
| Package 3 Length             | 80,000 cm |
| Package 3 Weight             | 97,004 kg |

## Sözleşme garantisi

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

## Sürdürülebilirlik

**Green Premium™** etiketi, Schneider Electric'in sınıfının en iyisi çevre performansına sahip ürünler sunma taahhüdüdür. Green Premium, en son düzenlemelere uyum, çevresel etkilere karşı şeffaflık ve döngüsel ve düşük CO<sub>2</sub> içeren ürünlere destek sözü verir.

**Ürün sürdürülebilirliğini değerlendirme kılavuzu**, küresel ekolojik etiket standartlarını ve çevresel beyanların nasıl yorumlanacağını açıklayan bir tanıtım yazısıdır.

[Green Premium hakkında daha fazla bilgi edinin >](#)

[Ticari bir ürünün sürdürülebilirliğini değerlendirme kılavuzu >](#)



Saydamlık RoHS/REACH

## Refah performansı

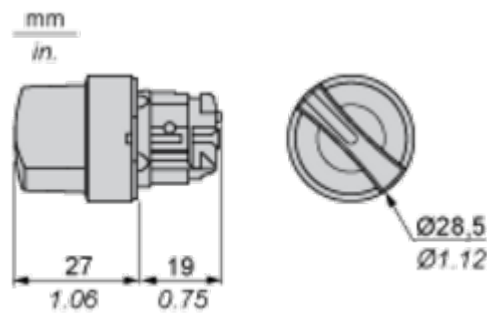
|   |                            |      |
|---|----------------------------|------|
| ✓ | Reach Free Of Svhc         |      |
| ✓ | Toxic Heavy Metal Free     |      |
| ✓ | Mercury Free               |      |
| ✓ | Rohs Exemption Information | Evet |

## Sertifikalar ve Standartlar

|                      |                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------|
| Reach Düzenlemesi    | <a href="#">REACH Bildirisi</a>                                                                |
| Eu Rohs Direktifi    | Proaktif uyumluluk (Ürün, EU RoHS yasal kapsamında değil)<br><a href="#">EU RoHS Bildirisi</a> |
| Çin Rohs Düzenlemesi | <a href="#">Çin RoHS beyanı</a>                                                                |
| Çevre Beyanı         | <a href="#">Çevresel Ürün Profili</a>                                                          |
| Döngüsellik Profili  | <a href="#">Kullanım Sonu Bilgileri</a>                                                        |

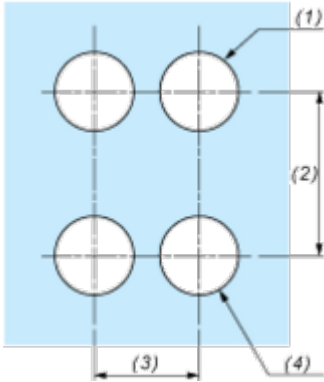
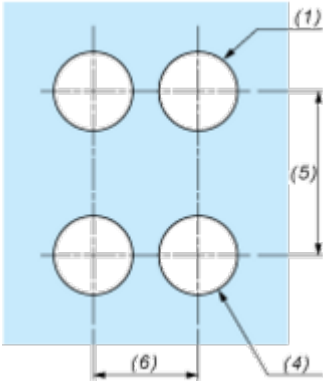
Dimensions Drawings

Dimensions



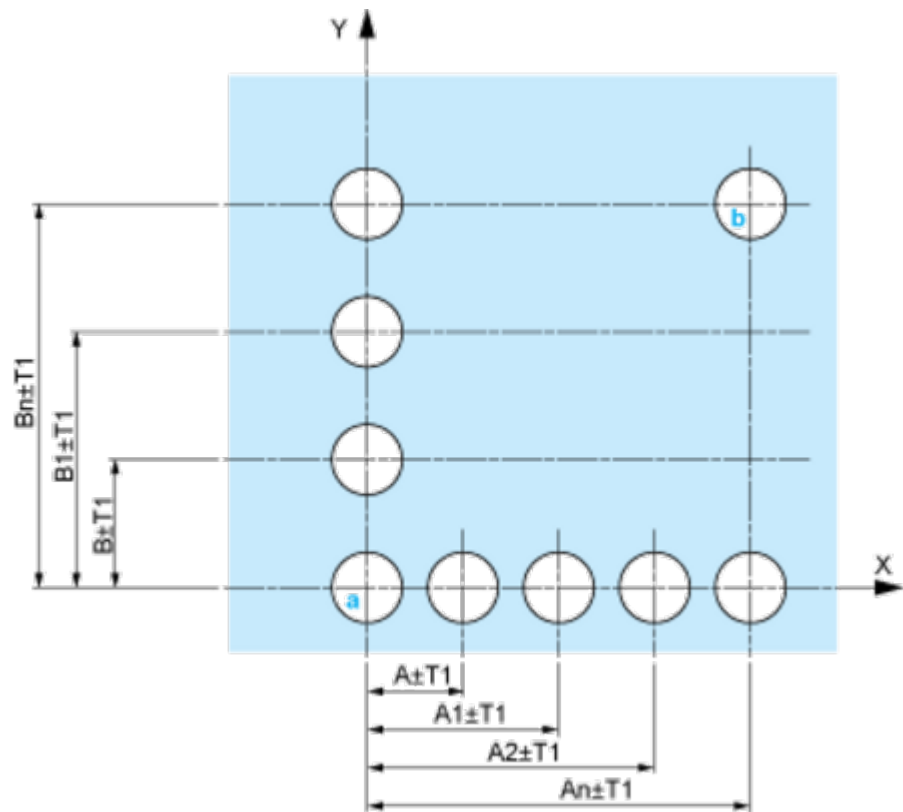
Mounting and Clearance

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)

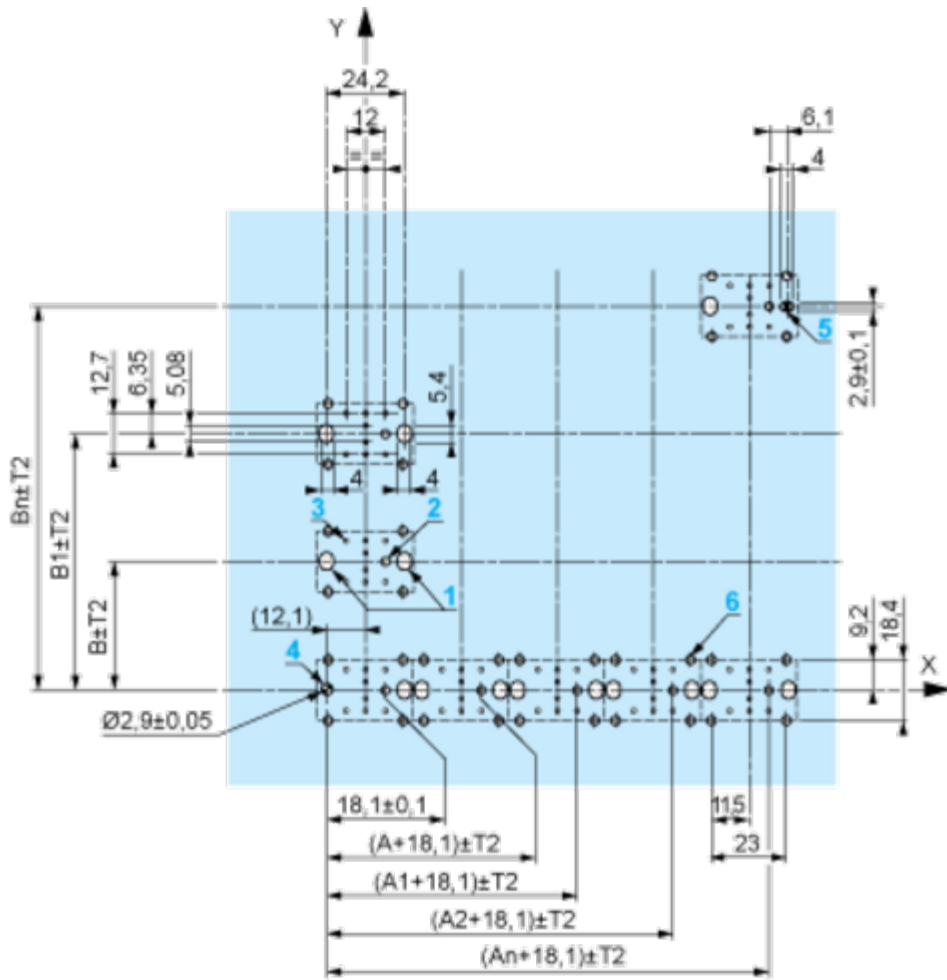


A: 30 mm min. / 1.18 in. min.

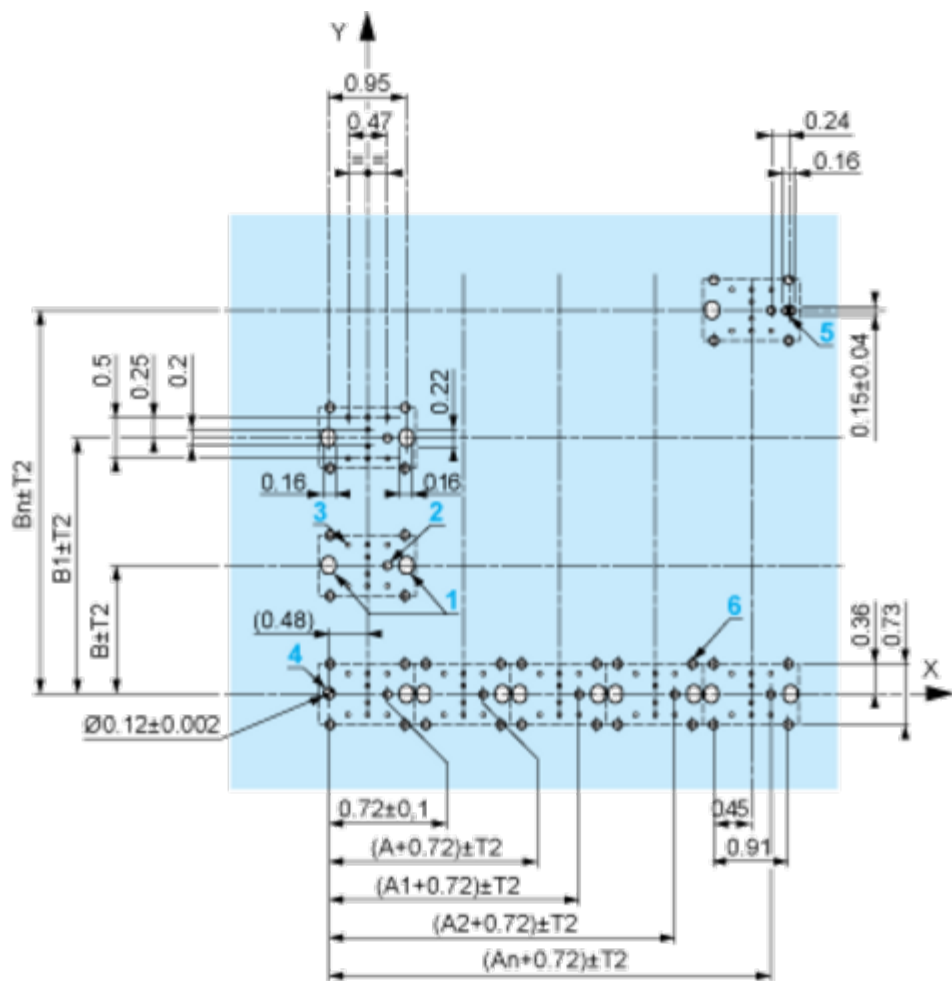
B: 40 mm min. / 1.57 in. min.

**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

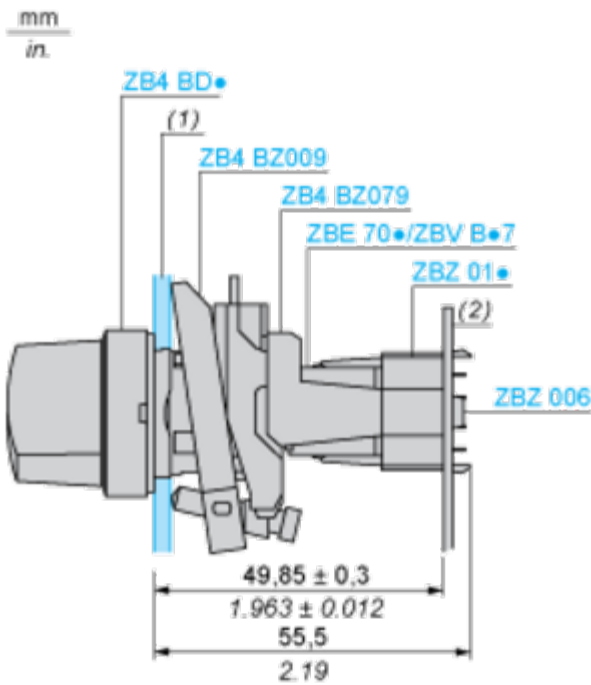
The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

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

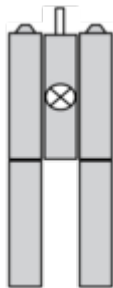
**Mounting of Adapter (Socket) ZBZ 01•**

- 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•

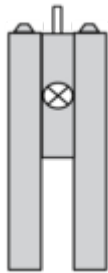
Dimensions An + 18.1 relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  holes for centring adapter ZBZ 01•.

Technical Description

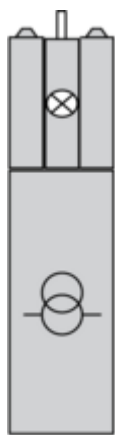
Electrical Composition Corresponding to Code M3



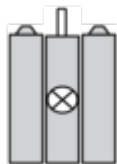
Electrical Composition Corresponding to Code M4



Electrical Composition Corresponding to Codes M6 and P2



Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



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   |  | Right  |
|          | State    |        | 0      |  | 0      |
|          |          |        |        |  |        |
| Contacts | N/O      |        | open   |  | open   |
|          | N/C      |        | closed |  | closed |

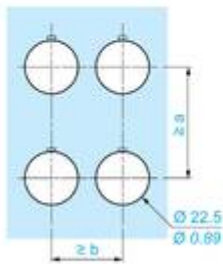
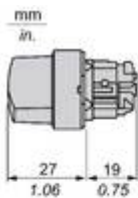
Position 45°



|          |          |        |        |  |        |
|----------|----------|--------|--------|--|--------|
| Push     | Position | Top    |        |  |        |
|          |          | Bottom |        |  |        |
|          | Location |        | Left   |  | Right  |
|          | State    |        | 1      |  | 1      |
|          |          |        |        |  |        |
| Contacts | N/O      |        | closed |  | closed |
|          | N/C      |        | 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    |
| ZBRT...   | ZBRV1     |        |         |        |         |



Offer Marketing Illustration

Product benefits / Features

### Features

Harmony XB4



Quick and easy assembly and disassembly



Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board



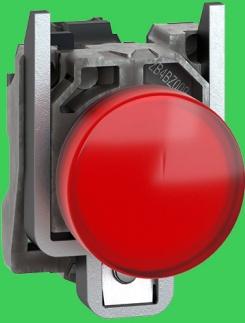
Robustness to withstand harsh environments



Excellent mechanical connection with operator head



Large set of accessories to customize your panels



Offer Marketing Illustration

Product benefits / Features

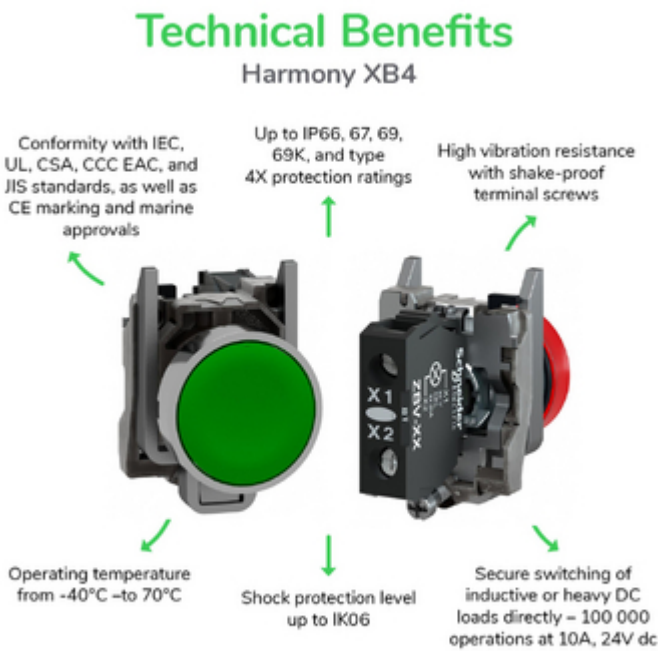


Image of product / Alternate images

Alternative

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