## Product data sheet

Specifications

blue illuminated selector switch
head $\varnothing 22$ 3-position spring return

ZB4BK17637
(!) Discontinued on: Dec 19, 2019
(1) Discontinued

Main

| Range Of Product | Harmony XB4 |
| :--- | :--- |
| Product Or Component Type | Head for illuminated selector switch |
| Product Compatibility | Integral LED |
| Device Short Name | ZB4 |
| Bezel Material | Black metal |
| Mounting Diameter | 22 mm |
| Sale Per Indivisible Quantity | 1 |
| Shape Of Signaling Unit Head | Round |
| Type Of Operator | Left to centre spring return |
| Operator Profile | Blue standard handle |
| Operator Position Information | 3 positions $+/-45^{\circ}$ |

Complementary

| Cad Overall Width | 29 mm |
| :--- | :--- |
| Cad Overall Height | 29 mm |
| Cad Overall Depth | 43 mm |
| Net Weight | 0.036 kg |
| Resistance To High Pressure <br> Washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance : 0.1 m |
| Mechanical Durability | 500000 cycles |
| Electrical Composition Code | M3 for <4 contacts using single blocks in front mounting with integral LED <br> M6 for <2 contacts using single blocks in front mounting with integral LED and <br> transformer <br> $M 10$ for $<2$ contacts using single blocks in front mounting with integral LED <br> M4 for <4 contacts using single and double blocks in front mounting with integral LED |
| Device Presentation | Basic element |

Environment

| Protective Treatment | TH |
| :--- | :--- |
| Ambient Air Temperature For <br> Storage | $-40 \ldots . .70^{\circ} \mathrm{C}$ |
| Ambient Air Temperature For <br> Operation | $-40 \ldots 70^{\circ} \mathrm{C}$ |
| Overvoltage Category | Class I conforming to IEC 60536 |


| Ip Degree Of Protection | IP66 conforming to IEC 60529 <br> IP67 <br> IP69 <br> IP69K |
| :---: | :---: |
| Nema Degree Of Protection | NEMA 13 NEMA 4X |
| Ik Degree Of Protection | IK04 conforming to IEC 50102 |
| Standards | EN/IEC 60947-1 <br> EN/IEC 60947-5-1 <br> CSA C22.2 No 14 <br> EN/IEC 60947-5-4 <br> JIS C8201-5-1 <br> EN/IEC 60947-5-5 <br> UL 508 <br> JIS C8201-1 |
| Product Certifications | GL <br> UL listed <br> LROS (Lloyds register of shipping) <br> DNV <br> CSA <br> BV |
| Vibration Resistance | $5 \mathrm{gn}(\mathrm{f}=2 \ldots 500 \mathrm{~Hz}$ ) conforming to IEC 60068-2-6 |
| Shock Resistance | ```30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27``` |

## Packing Units

Unit Type Of Package $1 \quad$ PCE

Number Of Units In Package 1
Contractual warranty

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

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: $1.18 \mathrm{in} . \mathrm{min}$.
B: 1.57 in . min.
General Tolerances of the Panel and Printed Circuit Board
The cumulative tolerance must not exceed $0.3 \mathrm{~mm} / 0.012 \mathrm{in}: \mathrm{T} 1+\mathrm{T} 2=0.3 \mathrm{~mm}$ max.

## Installation Precautions

- Minimum thickness of circuit board: $1.6 \mathrm{~mm} / 0.06 \mathrm{in}$.
- Cut-out diameter: $22.4 \mathrm{~mm} \pm 0.1$ / $0.88 \mathrm{in} . \pm 0.004$
- Orientation of body/fixing collar ZB4 BZ009: $\pm 20^{\circ} 30^{\prime}$ (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 $90 \mathrm{~mm} / 3.54 \mathrm{in}$. horizontally (X), and $120 \mathrm{~mm} / 4.72 \mathrm{in}$. vertically ( Y ).

- with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked $\mathbf{a}$ and $\mathbf{b}$ are diagonally opposed and must align with those marked $\mathbf{4}$ and $\mathbf{5}$.

(1) Panel
(2) Printed circuit board

## Mounting of Adapter (Socket) ZBZ 01•

- 12 elongated holes for ZBZ 006 screw access
- 21 hole $\varnothing 2.4 \mathrm{~mm} \pm 0.05$ / $0.09 \mathrm{in} . \pm 0.002$ for centring adapter ZBZ $01 \cdot$
- $38 \times \varnothing 1.2 \mathrm{~mm} / 0.05 \mathrm{in}$. holes
- 41 hole $\varnothing 2.9 \mathrm{~mm} \pm 0.05 / 0.11 \mathrm{in} . \pm 0.002$, for aligning the printed circuit board (with cut-out marked a)
- 51 elongated hole for aligning the printed circuit board (with cut-out marked b)
. 64 holes $\varnothing 2.4$ mm / 0.09 in. for clipping in adapter ZBZ 01 •

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

Technical Description

Electrical Composition Corresponding to Code M3



Electrical Composition Corresponding to Codes M6 and P2



Single contact


Double contact


Light block


Possible location


Position $315^{\circ}$



Position $0^{\circ}$



Position $45^{\circ}$



