## Product data sheet

# selector switch head Ø$\varnothing 22$ 3-position 

 spring return Key 455

ZB4BG087
(!) Discontinued on: Jan 29, 2021

## (!) Discontinued

Main

| Range Of Product | Harmony XB4 |
| :--- | :--- |
| Product Or Component Type | Head for key selector switch |
| Device Short Name | ZB4 |
| Bezel Material | Black metal |
| Mounting Diameter | 22 mm |
| Head Type | Standard |
| Sale Per Indivisible Quantity | 1 |
| Shape Of Signaling Unit Head | Round |
| Return | Right to centre |
| Operator Profile | Black key switch |
| Type Of Operator | Spring return |
| Operator Position Information | 3 positions $+/-45^{\circ}$ |
| Type Of Keylock | Key 455 |
| Key Withdrawal Position | Left |

Complementary

| Cad Overall Width | 29 mm |
| :--- | :--- |
| Cad Overall Height | 29 mm |
| Cad Overall Depth | 72 mm |
| Net Weight | 0.098 kg |
| Resistance To High Pressure <br> Washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance : 0.1 m |
| Mechanical Durability | 1000000 cycles |
| Electrical Composition Code | C 3 for $<6$ contacts using single blocks in front mounting |
|  | C 4 for $<6$ contacts using single and double blocks in front mounting <br> C 5 for $<5$ contacts using single blocks in front mounting <br> C 6 for $<5$ contacts using single and double blocks in front mounting <br> C 7 for $<4$ contacts using single blocks in front mounting <br> C 8 for $<4$ contacts using single and double blocks in front mounting <br> C 11 for $<3$ contacts using single blocks in front mounting |
| Device Presentation | Basic element |


| Ambient Air Temperature For Storage | $-40 \ldots .70^{\circ} \mathrm{C}$ |
| :---: | :---: |
| Ambient Air Temperature For 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 <br> NEMA 4X |
| Standards | EN/IEC 60947-5-5 <br> GB 14048.5 <br> UL 508 <br> EN/IEC 60947-5-4 <br> EN/IEC 60947-1 <br> EN/IEC 60947-5-1 <br> CSA C22.2 No 14 |
| Product Certifications | LROS (Lloyds register of shipping) <br> UL listed <br> BV <br> GL <br> CSA <br> DNV |
| Vibration Resistance | 5 gn (f= $2 \ldots 500 \mathrm{~Hz}$ ) conforming to IEC 60068-2-6 |
| Shock Resistance | 30 gn (duration $=18 \mathrm{~ms}$ ) for half sine wave acceleration conforming to IEC 60068-2-27 <br> 50 gn (duration $=11 \mathrm{~ms}$ ) for half sine wave acceleration conforming to IEC 60068-2-27 |

Contractual warranty

Warranty

## Sustainability

Green Premium ${ }^{\text {TM }}$ label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low- $\mathrm{CO}_{2}$ products.
Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.
Learn more about Green Premium >
Guide to assess a product's sustainability >


Transparency RoHS/REACh

## Well-being performance

[^0](V) Rohs Exemption Information

Yes

## Certifications \& Standards

| Reach Regulation | REACh Declaration |
| :--- | :--- |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Enduct Environmental Profile Life Information |
| Circularity Profile | WARNING: This product can expose you to chemicals including: Lead and lead <br> compounds, which is known to the State of California to cause cancer and birth <br> defects or other reproductive harm. For more information go to <br> www.P65Warnings.ca.gov |

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

Product data sheet
ZB4BG087


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 $(\mathrm{Y})$ ．
。 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 Ø 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 $01 \bullet$.

Technical Description

Electrical Composition Corresponding to Code C3




Electrical Composition Corresponding to Code C6



Electrical Composition Corresponding to Code C8




Double contact


Light block


Possible location



Position $0^{\circ}$


| Push | Position | Top |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bottom |  |  |  |
|  | Location |  | Left | Centre | Right |
|  | State |  | 0 | 0 | 0 |
| Contacts | N/O |  | open | open | open |
|  | N/C |  | closed | closed | closed |

Position $45^{\circ}$




[^0]:    (v)

    Mercury Free

