## Product datasheet

Specifications


# Head for illuminated selector switch, Harmony XB5, dark grey plastic, red handle, 22mm, universal LED, 2 positions 

Local distributor code
237223346
ZB5AK1243

Important message: A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks EAN Code: 3389110906073

## Main

| Range Of Product | Harmony XB5 |
| :---: | :---: |
| Product Or Component Type | Head for illuminated selector switch |
| Product Compatibility | Universal LED |
| Device Short Name | ZB5 |
| Bezel Material | Dark grey plastic |
| Mounting Diameter | 22 mm |
| Head Type | Standard |
| Sale Per Indivisible Quantity | 1 |
| Shape Of Signaling Unit Head | Round |
| Type Of Operator | stay put |
| Operator Profile | Red standard handle |
| Operator Position Information | 2 positions $90^{\circ}$ |
| Complementary |  |
| Cad Overall Width | 29 mm |
| Cad Overall Height | 29 mm |
| Cad Overall Depth | 43 mm |
| Net Weight | 0.016 kg |
| Mechanical Durability | 1000000 cycles |
| Station Name | XALD 1... 5 cut-outs XALK 2... 5 cut-outs |
| 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 transformer <br> M10 for <2 contacts using single blocks in front mounting with integral LED <br> MF1 for <2 contacts using single blocks in front mounting with integral LED <br> MR1 for <2 contacts using single blocks in rear mounting with integral LED <br> M4 for <4 contacts using single and double blocks in front mounting with integral LED |
| 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 II 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 |
| Resistance To High Pressure Washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance : 0.1 m |
| Ik Degree Of Protection | IK04 conforming to IEC 50102 |
| Standards | EN/IEC 60947-5-5 <br> UL 508 <br> EN/IEC 60947-5-4 <br> EN/IEC 60947-1 <br> CSA C22.2 No 14 JIS C8201-5-1 <br> EN/IEC 60947-5-1 <br> JIS C8201-1 |
| Product Certifications | GL <br> LROS (Lloyds register of shipping) UL listed <br> BV <br> DNV <br> CSA |
| Vibration Resistance | $5 \mathrm{gn}(\mathrm{f}=2 \ldots 500 \mathrm{~Hz}$ ) 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 |

Packing Units

| Unit Type Of Package 1 | PCE |
| :--- | :--- |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.500 cm |
| Package 1 Width | 5.200 cm |
| Package 1 Length | 3.300 cm |
| Package 1 Weight | 24.000 g |
| Unit Type Of Package 2 | 502 |
| Number Of Units In Package 2 | 100 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 2.600 kg |

Contractual warranty

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## Sustainability 달en

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 >


RoHS/REACh

## Well-being performance

$\qquad$ Reach Free Of Svhc


Toxic Heavy Metal Free


Mercury Free


Rohs Exemption Information

## Certifications \& Standards

## Reach Regulation

REACh Declaration

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

EU RoHS Declaration

China Rohs Regulation

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

(1) Diameter on finished panel or support
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
(3) $\varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.3_{0}^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended $\left(\varnothing 0.88 \mathrm{in} 0_{0}^{+0.016}\right)$

| Connections | a in mm | a in in. | b in mm | b in in. |
| :--- | :--- | :--- | :--- | :--- |
| By screw clamp terminals or plug-in connector | 40 | 1.57 | 30 | 1.18 |
| By Faston connectors | 45 | 1.77 | 32 | 1.26 |
| On printed circuit board | 30 | 1.18 | 30 | 1.18 |

## Detail of Lug Recess


(1) Diameter on finished panel or support
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
(3) $\varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.3_{0}{ }^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\varnothing 0.88 \mathrm{in} .0^{+0.016}$ )

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: $1.57 \mathrm{in} . \mathrm{min}$.
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 ZB5AZ009: $\pm 2^{\circ} 30^{\prime}$ (excluding cut-outs marked $\mathbf{a}$ and $\mathbf{b}$ ).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 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 (ZB5AD•, ZB5AJ•, ZB5AG•).

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

(1) Head ZB5AD•
(2) Panel
(2) Nut
(4) Printed circuit board

## Mounting of Adapter (Socket) ZBZ01•

- 12 elongated holes for ZBZ006 screw access
- 21 hole $\varnothing 2.4 \mathrm{~mm} \pm 0.05$ / $0.09 \mathrm{in} . \pm 0.002$ for centring adapter ZBZ01•
- $38 \times \varnothing 1.2 \mathrm{~mm} / 0.05 \mathrm{in}$. holes
- 41 hole Ø $2.9 \mathrm{~mm} \pm 0.05$ / $0.11 \mathrm{in} . \pm 0.002$, 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 $2.4 \mathrm{~mm} / 0.09 \mathrm{in}$. for clipping in adapter ZBZ01•

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 ZBZ01•$\cdot$

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 $315^{\circ}$



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

Position $45^{\circ}$




[^0]:    Warranty

