## Product data sheet

Specifications
SGreen
Premium


Head for selector switch, Harmony XB5, plastic, black, 22mm, 2 positions, spring return from right to left

ZB5AD4

Product availability: Stock - Normally stocked in distribution facility

Price*: 29.40 USD

## Main

| Range Of Product | Harmony XB5 |
| :---: | :---: |
| Product Or Component Type | Head for selector switch |
| Device Short Name | ZB5 |
| Bezel Material | Dark grey plastic |
| Mounting Diameter | 0.87 in (22 mm) |
| Head Type | Standard |
| Sale Per Indivisible Quantity | 1 |
| Shape Of Signaling Unit Head | Round |
| Type Of Operator | Right to left spring return |
| Operator Profile | Black standard handle |
| Operator Position Information | 2 positions $90^{\circ}$ |
| Complementary |  |
| Cad Overall Width | 1.14 in (29 mm) |
| Cad Overall Height | 1.14 in (29 mm) |
| Cad Overall Depth | 1.81 in (46 mm) |
| Net Weight | $0.04 \mathrm{lb}(\mathrm{US})(0.02 \mathrm{~kg})$ |
| Mechanical Durability | 1000000 cycles |
| Station Name | XALD $1 . . .5$ cut-outs XALK 2... 5 cut-outs |
| Electrical Composition Code | C3 6 single front mounting C4 6 single and double front mounting C5 5 single front mounting C6 5 single and double front mounting C7 4 single front mounting C8 4 single and double front mounting C11 3 single front mounting C15 1 single front mounting SF1 3 single front mounting SR1 3 single rear mounting |
| Device Presentation | Basic element |
| Environment |  |


| Ambient Air Temperature For Storage | $-40 \ldots 158{ }^{\circ} \mathrm{F}\left(-40 \ldots 70^{\circ} \mathrm{C}\right)$ |
| :---: | :---: |
| Ambient Air Temperature For Operation | $-40 \ldots 158{ }^{\circ} \mathrm{F}\left(-40 \ldots . .70^{\circ} \mathrm{C}\right)$ |
| Overvoltage Category | Class II IEC 60536 |
| Ip Degree Of Protection | IP67 IEC 60529 <br> IP69 IEC 60529 IP69K |
| Nema Degree Of Protection | NEMA 13 NEMA 4X |
| Resistance To High Pressure Washer | $1015.26 \mathrm{psi}(7000000 \mathrm{~Pa}) 131{ }^{\circ} \mathrm{F}\left(55^{\circ} \mathrm{C}\right) 0.1 \mathrm{~m}$ |
| Ik Degree Of Protection | IK06 conforming to IEC 50102 |
| Standards | UL 508 <br> IEC 60947-1 <br> IEC 60947-5-4 <br> CSA C22.2 No 14 <br> IEC 60947-5-1 <br> JIS C8201-5-1 <br> JIS C8201-1 |
| Product Certifications | BV <br> DNV <br> CSA <br> GL <br> LROS (Lloyds register of shipping) <br> UL Listed |
| Vibration Resistance | $5 \mathrm{gn} \mathrm{2} . .500 \mathrm{~Hz}$ )IEC 60068-2-6 |
| Shock Resistance | 30 gn 18 ms ) half sine wave acceleration IEC 60068-2-27 50 gn 11 ms ) half sine wave acceleration IEC 60068-2-27 |

Ordering and shipping details

| Category | US10CS222467 |
| :--- | :--- |
| Discount Schedule | OCS2 |
| Gtin | 3389110905120 |
| Returnability | Yes |
| Country Of Origin | US |

## Packing Units

| Unit Type Of Package 1 | PCE |
| :--- | :--- |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.05 in $(5.200 \mathrm{~cm})$ |
| Package 1 Width | 1.34 in $(3.400 \mathrm{~cm})$ |
| Package 1 Length | 2.28 in $(5.800 \mathrm{~cm})$ |
| Package 1 Weight | $0.96 \mathrm{oz}(27.300 \mathrm{~g})$ |
| Unit Type Of Package 2 | S 03 |
| Number Of Units In Package 2 | 200 |
| Package 2 Height | $11.81 \mathrm{in}(30.000 \mathrm{~cm})$ |
| Package 2 Width | $11.81 \mathrm{in}(30.000 \mathrm{~cm})$ |
| Package 2 Length | $15.75 \mathrm{in}(40.000 \mathrm{~cm})$ |
| Package 2 Weight | $13.06 \mathrm{lb}(\mathrm{US})(5.924 \mathrm{~kg})$ |

Contractual warranty
18 months

## Sustainability yerienn

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



Reach Free Of Svhc


Toxic Heavy Metal Free


Mercury FreeRohs Exemption Information

## Certifications \& Standards

| Reach Regulation | REACh Declaration |
| :--- | :--- |
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) <br> EUS Declaration |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | End of Life Information |
| Circularity Profile | WARNING: This product can expose you to chemicals including: Di-isodecyl <br> phthalate (DIDP), which is known to the State of California to cause birth defects or <br> other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| California Proposition 65 |  |

Dimensions Drawings

Dimensions
$\frac{\mathrm{mm}}{\mathrm{in} .}$


## 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 . / $1.57 \mathrm{in} . \mathrm{min}$.
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 $\mathbf{4}$ and $\mathbf{5}$.

(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•.

Technical Description

Electrical Composition Corresponding to Code C3








Electrical Composition Corresponding to Code C15

1 N/O


1 N/C

$1 \mathrm{~N} / \mathrm{O}+\mathrm{N} / \mathrm{C}$ or $1 \mathrm{~N} / \mathrm{O}+\mathrm{N} / \mathrm{O}$ or $1 \mathrm{~N} / \mathrm{C}+\mathrm{N} / \mathrm{C}$


Single contact


Double contact


Light block


Possible location


Sequence of Contacts Fitted to 2-position Selector Switch Body

Position $315^{\circ}$



Position $45^{\circ}$


| Push | Position | Top |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bottom |  |  |  |
|  | Location |  | Left | Centre | Right |
|  | State |  | 1 | 1 | 1 |
| Contacts | N/O |  | closed | closed | closed |
|  | N/C |  | open | open | open |

