## Product data sheet

Specifications
Green
Premium


Head for illuminated selector
switch, Harmony XB5, Harmony
XALF, grey plastic, green handle,
22 mm , universal LED, 2 positions
ZB5AK1233

Product availability: Stock - Normally stocked in distribution facility
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

Price*: 38.45 USD

## Main

| Range Of Product | Harmony XB5 <br> Harmony XALF |
| :--- | :--- |
| Product Or Component Type | Head for illuminated selector switch |
| Product Compatibility | Universal LED |
| 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 | stay put |
| Operator Profile | Green standard handle |
| Operator Position Information | 2 positions $90^{\circ}$ |

Complementary

| Cad Overall Width | 1.14 in $(29 \mathrm{~mm})$ |
| :--- | :--- |
| Cad Overall Height | 1.14 in $(29 \mathrm{~mm})$ |
| Cad Overall Depth | 1.69 in $(43 \mathrm{~mm})$ |
| Net Weight | $0.04 \mathrm{lb}(\mathrm{US})(0.016 \mathrm{~kg})$ |
| Mechanical Durability | 1000000 cycles |
| Station Name | XALD 1...5 cut-outs |
|  | XALK 2...5 cut-outs |
| Electrical Composition Code | M3 4 single front mounting integral LED |
|  | M6 2 single front mounting integral LED and transformer |
|  | M10 2 single front mounting integral LED |
|  | MF1 2 single front mounting integral LED |
|  | MR1 2 single rear mounting integral LED |
| M4 4 single and double front mounting integral LED |  |

Device Presentation

## Environment

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

| Protective Treatment | TH |
| :---: | :---: |
| Ambient Air Temperature For Storage | $-40 \ldots 158{ }^{\circ} \mathrm{F}\left(-40 \ldots . .70^{\circ} \mathrm{C}\right)$ |
| Ambient Air Temperature For Operation | $-40 \ldots 158{ }^{\circ} \mathrm{F}\left(-40 . . .70^{\circ} \mathrm{C}\right)$ |
| Overvoltage Category | Class II IEC 60536 |
| Ip Degree Of Protection | ```IP66 IEC 60529 IP67 IP69 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 | IK04 conforming to IEC 50102 |
| Standards | UL 508 <br> CSA C22.2 No 14 JIS C8201-5-1 <br> EN/IEC 60947-5-5 <br> EN/IEC 60947-5-1 <br> EN/IEC 60947-5-4 <br> EN/IEC 60947-1 <br> JIS C8201-1 |
| Product Certifications | UL Listed <br> DNV <br> LROS (Lloyds register of shipping) <br> BV <br> GL <br> CSA |
| 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 | 3389110906066 |
| Returnability | Yes |
| Country Of Origin | US |

Packing Units

| Unit Type Of Package 1 | PCE |
| :--- | :--- |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.24 in $(5.700 \mathrm{~cm})$ |
| Package 1 Width | 2.05 in $(5.200 \mathrm{~cm})$ |
| Package 1 Length | 1.30 in $(3.300 \mathrm{~cm})$ |
| Package 1 Weight | $0.81 \mathrm{oz}(23.000 \mathrm{~g})$ |
| Unit Type Of Package 2 | S 03 |
| Number Of Units In Package 2 | 200 |
| Package 2 Height | 11.81 in $(30.000 \mathrm{~cm})$ |
| Package 2 Width | 11.81 in $(30.000 \mathrm{~cm})$ |
| Package 2 Length | 15.75 in $(40.000 \mathrm{~cm})$ |


| Package 2 Weight | $11.57 \mathrm{lb}(\mathrm{US})(5.249 \mathrm{~kg})$ |
| :--- | :--- |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 1600 |
| Package 3 Height | $29.53 \mathrm{in}(75.000 \mathrm{~cm})$ |
| Package 3 Width | $23.62 \mathrm{in}(60.000 \mathrm{~cm})$ |
| Package 3 Length | $31.50 \mathrm{in}(80.000 \mathrm{~cm})$ |
| Package 3 Weight | $115.97 \mathrm{lb}(\mathrm{US})(52.604 \mathrm{~kg})$ |

Contractual warranty

## 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


## 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) Ø22.5 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 $(\mathrm{Y})$.

- 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 M3



Electrical Composition Corresponding to Codes M6 and P2



Single contact


Double contact


Light block


Possible location


Sequence of Contacts Fitted to 2-position Selector Switch Body

Position $315^{\circ}$



Position $45^{\circ}$



