

| Main | Harmony XB5 |
| :--- | :--- |
| Range of product | Head for pilot light |
| Product or component type | Integral LED |
| Product compatibility | ZB5 |
| Device short name | Plastic |
| Bezel material | 22 mm |
| Mounting diameter | Standard |
| Head type | 1 |
| Sale per indivisible quantity | Round |
| Shape of signaling unit head | Green |
| Cap/Operator or lens colour | With plain lens |
| Operator additional information |  |

Complementary

| CAD overall width | 29 mm |
| :--- | :--- |
| CAD overall height | 29 mm |
| CAD overall depth | 31 mm |
| Product weight | 0.017 kg |
| Station name | XALD 1...5 cut-outs |
|  | XALK $2 \ldots 5$ cut-outs |
| Electrical composition code | P1 in front mounting with integral LED |
|  | P2 in front mounting with integral LED and transformer |
|  | PF1 in front mounting with integral LED |
|  | PR1 in rear mounting with integral LED |

Environment

| Protective treatment | TH |
| :--- | :--- |
| 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 IEC 60536 |
| IP degree of protection | IP69 conforming to IEC 60529 |
|  | IP69K conforming to ISO 20653 |
|  | IP66 conforming to IEC 60529 |


|  | IP67 conforming to IEC 60529 |
| :--- | :--- |
| NEMA degree of protection | NEMA 13 |
|  | NEMA 4X |
| Resistance to high pressure washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance: 0.1 m |
| IK degree of protection | IK05 conforming to IEC 50102 |
| Standards | EN/IEC 60947-1 |
|  | JIS C 4520 |
|  | EN/IEC 60947-5-4 |
|  | UL 508 |
|  | EN/IEC 60947-5-5 |
|  | EN/IEC 60947-5-1 |
|  | CSA C22.2 No 14 |
| Vibration resistance | $5 \mathrm{gn}(\mathrm{f}=2 . .500 \mathrm{~Hz})$ 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 |
|  | 50 gn (duration $=11 \mathrm{~ms})$ for half sine wave acceleration conforming to IEC 60068-2-27 |

Contractual warranty
Warranty period 18 months


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) $\quad \varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.3_{0}{ }^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended $\left(\varnothing 0.88 \mathrm{in} .0^{+0.016}\right)$

| 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

(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
(3) $\quad \varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.3_{0^{+0.4}}\right.$ ) / Ø0.89 in. recommended ( $\left.\varnothing 0.88 \mathrm{in} .0^{+0.016}\right)$

Panel Cut-outs (Viewed from Installer's Side)


A: $\quad 30 \mathrm{~mm}$ min. / $1.18 \mathrm{in} . \mathrm{min}$.
B: $\quad 40 \mathrm{~mm}$ min. / $1.57 \mathrm{in} . \mathrm{min}$.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

## Dimensions in mm



A: $\quad 30 \mathrm{~mm}$ min.
B: $\quad 40 \mathrm{~mm}$ min.


A: $\quad 1.18$ in. min.
B: $\quad 1.57 \mathrm{in} . \mathrm{min}$.

## 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 a and b).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 Ibf.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 a and b are diagonally opposed and must align with those marked 4 and 5 .


Mounting of Adapter (Socket) ZBZ01•

- 12 elongated holes for ZBZOO6 screw access
- 21 hole $\varnothing 2.4 \mathrm{~mm} \pm 0.05$ / $0.09 \mathrm{in} . \pm 0.002$ for centring adapter ZBZO1•
- $38 \times \varnothing 1.2 \mathrm{~mm} / 0.05 \mathrm{in}$. 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 $2.4 \mathrm{~mm} / 0.09 \mathrm{in}$. 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• .

## Lembar data produk <br> ZB5AV033

Technical Description

Electrical Composition Corresponding to Codes P1, P3, PF1, PR1 and PF2

Light block
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## Lembar data produk ZB5AV033

Technical Description

Electrical Composition Corresponding to Codes M6 and P2


## Lembar data produk ZB5AV033

Technical Description

Legend

Single contact


Double contact


Light block


## Possible location



