## Product data sheet

Specifications


## Harmony, 22mm Push Button, selector switch operating head, 3 position, maintained, black, unmarked

ZB5AD3

Product availability : Stock - Normally stocked in distribution facility

Price* : 24.00 USD

| 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 | stay put |
| Operator profile | Black standard handle |
| Operator position information | 3 positions +/-45 |
| 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) |
| Product Weight | 0.04 lb (US) ( 0.017 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 SF1 3 single front mounting SR1 3 single rear mounting |
| Device presentation | Basic element |

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## Environment

| 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 | $-40 \ldots 158{ }^{\circ} \mathrm{F}\left(-40 \ldots . .70^{\circ} \mathrm{C}\right)$ |
| Overvoltage category | Class II IEC 60536 |
| IP degree of protection | IP67 IEC 60529 IP69 IEC 60529 IP69K |
| NEMA degree of protection | NEMA 13 <br> 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 IEC 50102 |
| Standards | EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14 JIS C8201-5-1 EN/IEC 60947-1 EN/IEC 60947-5-4 JIS C8201-1 |
| Product Certifications | LROS (Lloyds register of shipping) <br> DNV <br> GL <br> UL Listed <br> BV <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 60 50 gn 11 ms ) half sine wave acceleration IEC 60 |

Ordering and shipping details

| Category | $22467-$ PUSHBUTTONS,22MM(PLASTIC) NEW |
| :--- | :--- |
| Discount Schedule | CS2 |
| GTIN | 3389110905069 |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

| Unit Type of Package 1 | PCE |
| :--- | :--- |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.46 in $(3.700 \mathrm{~cm})$ |
| Package 1 Width | 2.13 in $(5.400 \mathrm{~cm})$ |
| Package 1 Length | 2.32 in $(5.900 \mathrm{~cm})$ |
| Package 1 Weight | $0.81 \mathrm{oz}(23.000 \mathrm{~g})$ |
| Unit Type of Package 2 | BB 1 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 1.77 in $(4.500 \mathrm{~cm})$ |
| Package 2 Width | 1.34 in $(3.400 \mathrm{~cm})$ |
| Package 2 Length | 10.43 in $(26.500 \mathrm{~cm})$ |
| Package 2 Weight | 4.20 oz $(119.000 \mathrm{~g})$ |


| Unit Type of Package 3 | S03 |
| :--- | :--- |
| Number of Units in Package 3 | 200 |
| Package 3 Height | $11.81 \mathrm{in}(30.000 \mathrm{~cm})$ |
| Package 3 Width | $11.81 \mathrm{in}(30.000 \mathrm{~cm})$ |
| Package 3 Length | $15.75 \mathrm{in}(40.000 \mathrm{~cm})$ |
| Package 3 Weight | $11.65 \mathrm{lb}(\mathrm{US})(5.285 \mathrm{~kg})$ |

Offer Sustainability

| Sustainable offer status | Green Premium product |
| :--- | :--- |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is <br> known to the State of California to cause birth defects or other reproductive harm. For more information <br> go to www.P65Warnings.ca.gov |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) <br> EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Contractual warranty
Warranty
18 months


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 $\left(\varnothing 22.30^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\varnothing 0.88 \mathrm{in} .0^{+0.016}$ )

| 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 $\left(\varnothing 0.88 \mathrm{in} .0^{+0.016}\right)$

## Product data sheet

ZB5AD3
Mounting and Clearance

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection
Panel Cut-outs (Viewed from Installer's Side)


A: 30 mm min. / $1.18 \mathrm{in} . \mathrm{min}$.
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 in. 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 ZB5AZ009: $\pm 2^{\circ} 30^{\prime}$ (excluding cut-outs marked $\mathbf{a}$ 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 $(\mathrm{X})$, 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 $\varnothing 2.9 \mathrm{~mm} \pm 0.05 / 0.11 \mathrm{in} . \pm 0.002$, 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 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• .




[^0]:    * Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

