# Product data sheet

## Specifications

### Head for pilot light, Harmony XB5, metal, green, 22mm, plain lens for BA9s bulb

**ZB5AV03**

Product availability: Stock - Normally stocked in distribution facility

**Price*: $7.60 USD

### Main

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of Product</td>
<td>Harmony XB5</td>
</tr>
<tr>
<td>Product or Component Type</td>
<td>Head for pilot light</td>
</tr>
<tr>
<td>Product Compatibility</td>
<td>BA 9s</td>
</tr>
<tr>
<td>Device short name</td>
<td>ZB5</td>
</tr>
<tr>
<td>Bezel material</td>
<td>Dark grey plastic</td>
</tr>
<tr>
<td>Mounting diameter</td>
<td>0.87 in (22 mm)</td>
</tr>
<tr>
<td>Head type</td>
<td>Standard</td>
</tr>
<tr>
<td>Sale per indivisible quantity</td>
<td>1</td>
</tr>
<tr>
<td>Shape of signaling unit head</td>
<td>Round</td>
</tr>
<tr>
<td>Cap/Operator or lens colour</td>
<td>Green</td>
</tr>
<tr>
<td>Operator additional information</td>
<td>With plain lens</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD overall width</td>
<td>1.14 in (29 mm)</td>
</tr>
<tr>
<td>CAD overall height</td>
<td>1.14 in (29 mm)</td>
</tr>
<tr>
<td>CAD overall depth</td>
<td>1.22 in (31 mm)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.04 lb (US) (0.018 kg)</td>
</tr>
<tr>
<td>Station name</td>
<td>XALD 1...5 cut-outs</td>
</tr>
<tr>
<td></td>
<td>XALK 2...5 cut-outs</td>
</tr>
<tr>
<td>Electrical composition code</td>
<td>P3 front mounting BA 9s</td>
</tr>
<tr>
<td></td>
<td>P4 front mounting BA 9s and transformer</td>
</tr>
<tr>
<td></td>
<td>PF2 front mounting BA 9s</td>
</tr>
<tr>
<td>Device presentation</td>
<td>Basic element</td>
</tr>
</tbody>
</table>

### Environment

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective treatment</td>
<td>TH</td>
</tr>
<tr>
<td>Ambient Air Temperature for Storage</td>
<td>-40…158 °F (-40…70 °C)</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-40…158 °F (-40…70 °C)</td>
</tr>
<tr>
<td>Overvoltage category</td>
<td>Class II IEC 60536</td>
</tr>
</tbody>
</table>

* Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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*Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific use applications.*
IP degree of protection
IP66 IEC 60529
IP67 IEC 60529
IP69 IEC 60529
IP69K ISO 20653

NEMA degree of protection
NEMA 13
NEMA 4X

Resistance to high pressure washer
1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m

IK degree of protection
IK05 IEC 50102

Standards
IEC 60947-5-4
JIS C8201-5-1
IEC 60947-1
JIS C8201-2 No 14
IEC 60947-5-5
UL 508
JIS C8201-1

Vibration resistance
5 gn 2…500 Hz

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
22467-PUSHBUTTONS,22MM(PLASTIC) NEW
Discount Schedule
CS2
GTIN
3389110908077
Returnability
Yes
Country of origin
FR

Packing Units
Unit Type of Package 1
PCE
Number of Units in Package 1
1
Package 1 Height
1.77 in (4.500 cm)
Package 1 Width
1.34 in (3.400 cm)
Package 1 Length
2.13 in (5.400 cm)
Package 1 Weight
0.53 oz (15.000 g)
Unit Type of Package 2
S03
Number of Units in Package 2
300
Package 2 Height
11.81 in (30.000 cm)
Package 2 Width
11.81 in (30.000 cm)
Package 2 Length
15.75 in (40.000 cm)
Package 2 Weight
11.45 lb(US) (5.194 kg)
Unit Type of Package 3
P06
Number of Units in Package 3
2400
Package 3 Height
29.53 in (75.000 cm)
Package 3 Width
23.62 in (60.000 cm)
Package 3 Length
31.50 in (80.000 cm)
Package 3 Weight
111.56 lb(US) (50.604 kg)

Offer Sustainability
Sustainable offer status
Green Premium product
REACh Regulation
REACh Declaration
<table>
<thead>
<tr>
<th><strong>REACCh free of SVHC</strong></th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EU RoHS Directive</strong></td>
<td>Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration</td>
</tr>
<tr>
<td><strong>Toxic heavy metal free</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mercury free</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>China RoHS Regulation</strong></td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td><strong>RoHS exemption information</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Environmental Disclosure</strong></td>
<td>Product Environmental Profile</td>
</tr>
<tr>
<td><strong>Circularity Profile</strong></td>
<td>End of Life Information</td>
</tr>
</tbody>
</table>

**Contractual warranty**

**Warranty** 18 months
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 (Ø22.3 \( \pm 0.4 \)) / Ø0.89 in. recommended (Ø0.88 in. \( \pm 0.016 \))

<table>
<thead>
<tr>
<th>Connections</th>
<th>a in mm</th>
<th>a in in.</th>
<th>b in mm</th>
<th>b in in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>By screw clamp terminals or plug-in connector</td>
<td>40</td>
<td>1.57</td>
<td>30</td>
<td>1.18</td>
</tr>
<tr>
<td>By Faston connectors</td>
<td>45</td>
<td>1.77</td>
<td>32</td>
<td>1.26</td>
</tr>
<tr>
<td>On printed circuit board</td>
<td>30</td>
<td>1.18</td>
<td>30</td>
<td>1.18</td>
</tr>
</tbody>
</table>

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) Ø22.5 mm recommended (Ø22.3 \( \pm 0.4 \)) / Ø0.89 in. recommended (Ø0.88 in. \( \pm 0.016 \))
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 in. min.
B: 1.57 in. min.

General Tolerances of the Panel and Printed Circuit Board
The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

Installation Precautions
- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB5AZ009: ± 2° '30' (excluding cut-outs marked a and 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 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (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.

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(1) Head ZB5AD•
(2) Panel
(2) Nut
(4) Printed circuit board
Mounting of Adapter (Socket) ZBZ01

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm ± 0.05 / 0.11 in. ± 0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 holes for centring adapter ZBZ01.
Electrical Composition Corresponding to Codes P1, P3, PF1, PR1 and PF2

Light block
Electrical Composition Corresponding to Code P4
Legend

- Single contact
- Double contact
- Light block
- Possible location
Product data sheet

Technical Illustration

ZB5AV03

Dimensions

<table>
<thead>
<tr>
<th>a (mm)</th>
<th>a (in.)</th>
<th>b (mm)</th>
<th>b (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZBE3</td>
<td>40</td>
<td>1.57</td>
<td>30</td>
</tr>
<tr>
<td>ZBV3</td>
<td>45</td>
<td>1.77</td>
<td>32</td>
</tr>
<tr>
<td>ZBE4</td>
<td>40</td>
<td>1.57</td>
<td>30</td>
</tr>
<tr>
<td>ZBV4</td>
<td>50</td>
<td>1.97</td>
<td>30</td>
</tr>
<tr>
<td>ZBE5</td>
<td>40</td>
<td>1.57</td>
<td>30</td>
</tr>
<tr>
<td>ZBV5</td>
<td>40</td>
<td>1.57</td>
<td>30</td>
</tr>
</tbody>
</table>

Recommended replacement(s)

Nov 30, 2023