

# Product data sheet

Specifications



Head for illuminated push button,  
Harmony XB5, clear flush, 22mm,  
BA9s bulb, spring return, unmarked

ZB5AW37

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

|                                 |                                  |
|---------------------------------|----------------------------------|
| Range of Product                | Harmony XB5                      |
| Product or Component Type       | Head for illuminated push-button |
| Device short name               | ZB5                              |
| Product Compatibility           | BA 9s                            |
| Bezel material                  | Dark grey plastic                |
| Mounting diameter               | 0.9 in (22 mm)                   |
| Sale per indivisible quantity   | 1                                |
| Head type                       | Standard                         |
| Shape of signaling unit head    | Round                            |
| Type of operator                | spring return                    |
| Operator profile                | Clear flush, unmarked            |
| Operator additional information | With plain lens                  |

## Complementary

|                                    |  |
|------------------------------------|--|
| CAD overall width                  | 1.1 in (29 mm)   |
| CAD overall height                 | 1.1 in (29 mm)   |
| CAD overall depth                  | 1.3 in (32 mm)   |
| Net Weight                         | 0.040 lb(US) (0.018 kg)  |
| Resistance to high pressure washer | 1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m   |
| Mechanical durability              | 10000000 cycles  |
| Station name                       | XALD 1...5 cut-outs<br>XALK 2...5 cut-outs   |
| Cap/operator or lens colour        | Clear  |
| Marking                            | Unmarked   |
| Electrical composition code        | M7 6 single front mounting BA 9s<br>M8 6 single and double front mounting BA 9s<br>M9 2 single front mounting BA 9s and transformer<br>MF2 2 single front mounting BA 9s |
| Device presentation                | Basic sub-assemblies   |

## Environment

|                                     |                            |
|-------------------------------------|----------------------------|
| Protective treatment                | TC                         |
| Ambient Air Temperature for Storage | -40...158 °F (-40...70 °C) |

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

|  |  |
|--|--|
| <b>Ambient Air Temperature for Operation</b> | -40...131 °F (-40...55 °C)   |
| <b>Overvoltage category</b>                  | Class II conforming to IEC 60536   |
| <b>IP degree of protection</b>               | IP66 IEC 60529<br>IP67<br>IP69<br>IP69K  |
| <b>NEMA degree of protection</b>             | NEMA 13<br>NEMA 4X   |
| <b>IK degree of protection</b>               | IK05 conforming to IEC 62262   |
| <b>Standards</b>                             | IEC 60947-1<br>CSA C22.2 No 14<br>IEC 60947-5-4<br>JIS C8201-5-1<br>IEC 60947-5-1<br>GB 14048.5<br>UL 508<br>JIS C8201-1 |
| <b>Product Certifications</b>                | CSA<br>DNV<br>BV<br>LROS (Lloyds register of shipping)<br>UL Listed  |
| <b>Vibration resistance</b>                  | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6   |
| <b>Shock resistance</b>                      | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27       |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10CS222467  |
| <b>Discount Schedule</b> | 0CS2          |
| <b>GTIN</b>              | 3389110137071 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | CZ            |

## Packing Units

|                                     |                         |
|-------------------------------------|-------------------------|
| <b>Unit Type of Package 1</b>       | PCE                     |
| <b>Nbr. of units in pkg.</b>        | 1                       |
| <b>Package 1 Height</b>             | 1.38 in (3.500 cm)      |
| <b>Package 1 Width</b>              | 1.85 in (4.700 cm)      |
| <b>Package 1 Length</b>             | 2.09 in (5.300 cm)      |
| <b>Package weight(Lbs)</b>          | 0.600 oz (17.000 g)     |
| <b>Unit Type of Package 2</b>       | S01                     |
| <b>Number of Units in Package 2</b> | 50                      |
| <b>Package 2 Height</b>             | 5.91 in (15.000 cm)     |
| <b>Package 2 Width</b>              | 5.91 in (15.000 cm)     |
| <b>Package 2 Length</b>             | 15.75 in (40.000 cm)    |
| <b>Package 2 Weight</b>             | 2.359 lb(US) (1.070 kg) |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 18 months |
|-----------------|-----------|

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 1

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

REACH Regulation [REACH Declaration](#)

California proposition 65 **WARNING:** This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Use Again

### Repack and remanufacture

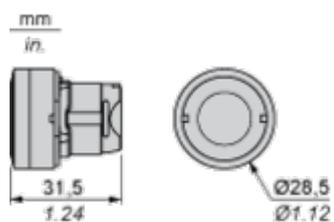
Circularity Profile [End of Life Information](#)

Take-back No

Dimensions Drawings

Dimensions

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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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )

| 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)  $\varnothing 22.5$  mm recommended ( $\varnothing 22.3 \text{ }_0^{+0.4}$ ) /  $\varnothing 0.89$  in. recommended ( $\varnothing 0.88 \text{ in. }_0^{+0.016}$ )





A: 1.18 in. min.  
 B: 1.57 in. min.

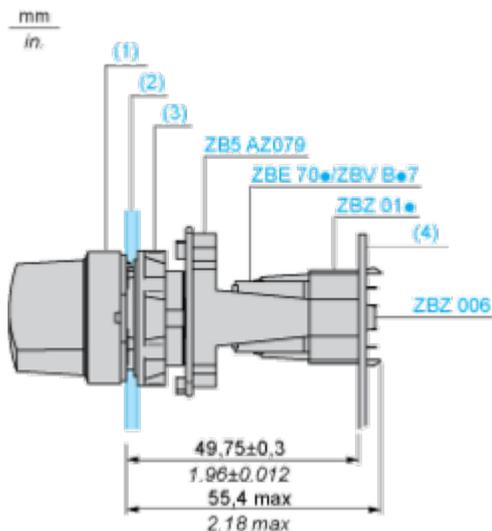
**General Tolerances of the Panel and Printed Circuit Board**

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.



- (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  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ01•
- 3 8  $\times$   $\varnothing$  1.2 mm / 0.05 in. holes
- 4 1 hole  $\varnothing$  2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  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  $\varnothing$  2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01•.

Technical Description

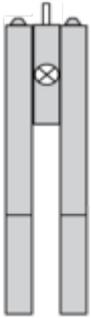
Electrical Composition Corresponding to Codes M1 and M7

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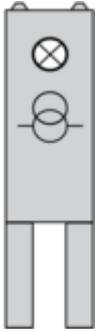
Electrical Composition Corresponding to Codes M2 and M8

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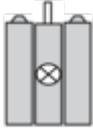


Electrical Composition Corresponding to Code M9

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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



**Legend**

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Single contact



Double contact



Light block

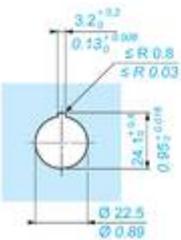
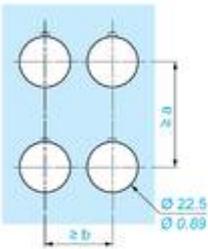
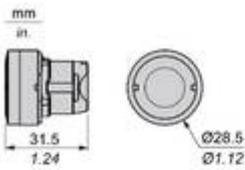


Possible location



Technical Illustration

Dimensions



|           |           | a (mm) | a (in.) | b (mm) | b (in.) |
|-----------|-----------|--------|---------|--------|---------|
| ZBE.....  | ZBV.....  | 40     | 1.57    | 30     | 1.18    |
| ZBE.....3 | ZBV.....3 | 45     | 1.77    | 32     | 1.26    |
| ZBE.....4 | ZBV.....4 | 40     | 1.57    | 30     | 1.18    |
| ZBE.....5 | ZBV.....5 | 50     | 1.97    | 30     | 1.18    |
| ZBE.....9 | ZBV.....9 | 40     | 1.57    | 30     | 1.18    |
| ZBRT•     | ZBRV1     | 40     | 1.57    | 30     | 1.18    |