

# Product data sheet

## Characteristics

# ZB4BW543

red flush illuminated pushbutton head Ø22 spring return for integral LED

Product availability : Stock - Normally stocked in distribution facility

Price\* : 31.00 USD



### Main

|                                 |                                  |
|---------------------------------|----------------------------------|
| Range of product                | Harmony XB4                      |
| Product or component type       | Head for illuminated push-button |
| Device short name               | ZB4                              |
| Product compatibility           | Integral LED                     |
| Bezel material                  | Chromium plated metal            |
| Mounting diameter               | 0.87 in (22 mm)                  |
| Sale per indivisible quantity   | 1                                |
| Shape of signaling unit head    | Round                            |
| Type of operator                | Spring return                    |
| Operator profile                | Red flush unmarked               |
| Operator additional information | Clear boot                       |

### Complementary

|                                    |  |
|------------------------------------|--|
| CAD overall width                  | 1.14 in (29 mm)  |
| CAD overall height                 | 1.14 in (29 mm)  |
| CAD overall depth                  | 1.18 in (30 mm)  |
| Product weight                     | 0.07 lb(US) (0.031 kg)   |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) at 131 °F (55 °C),distance: 0.1 m   |
| Mechanical durability              | 10000000 cycles  |
| Electrical composition code        | M1 <= 6 contacts using single blocks in front mounting with integral LED<br>M2 <= 6 contacts using single and double blocks in front mounting with integral LED<br>M10 <= 2 contacts using single blocks in front mounting with integral LED<br>M6 <= 2 contacts using single blocks in front mounting with integral LED and transformer |

### Environment

|                      |    |
|----------------------|----|
| Protective treatment | TH |
|----------------------|----|

|                                       |  |
|---------------------------------------|--|
| Ambient air temperature for storage   | -40...158 °F (-40...70 °C)   |
| Ambient air temperature for operation | -40...158 °F (-40...70 °C)   |
| Overvoltage category                  | Class I conforming to IEC 60536  |
| IP degree of protection               | IP67<br>IP66 conforming to IEC 60529   |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X   |
| IK degree of protection               | IK06 conforming to EN 50102  |
| Standards                             | EN/IEC 60947-5-4<br>EN/IEC 60947-1<br>CSA C22.2 No 14<br>UL 508<br>JIS C 4520<br>EN/IEC 60947-5-5<br>EN/IEC 60947-5-1  |
| Product certifications                | GL<br>DNV<br>CSA<br>RINA<br>UL listed<br>BV<br>LROS (Lloyds register of shipping)  |
| Vibration resistance                  | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6  |
| Shock resistance                      | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |

### Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22468 - PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule     | CS2                                 |
| GTIN                  | 00785901383161                      |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 7.0000000000000007E-2               |
| Returnability         | Y                                   |
| Country of origin     | FR                                  |

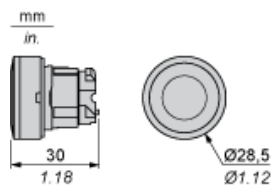
### Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

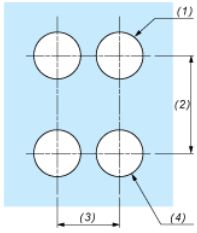
---

Dimensions

---



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  | On Circuit Board Faston Connectors |
|--|------------------------------------|
|   |                                    |
| <p>(1) Diameter on finished panel or support<br/>           (2) 40 mm min. / 1.57 in. min.<br/>           (3) 30 mm min. / 1.18 in. min.<br/>           (4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm<sub>0</sub><sup>+0.4</sup> / 0.88 in. <sub>0</sub><sup>+0.016</sup>)<br/>           (5) 45 mm min. / 1.78 in. min.<br/>           (6) 32 mm min. / 1.26 in. min.</p> |                                    |

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 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:  $T1 + T2 = 0.3 \text{ mm max.}$

### Installation Precautions

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm  $\pm$  0.1 / 0.88 in.  $\pm$  0.004
- Orientation of body/fixing collar ZB4 BZ009:  $\pm 2^\circ 30'$  (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 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 (ZB4 BD\*, ZB4 BJ\*, ZB4 BG\*).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Panel  
(2) Printed circuit board

## Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 for centring adapter ZBZ 01•
- 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 ZBZ 01•

Dimensions An + 18.1 relate to the  $\varnothing$  2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

---

Electrical Composition Corresponding to Codes M1 and M7

---





---

Electrical Composition Corresponding to Codes M2 and M8

---



---

Electrical Composition Corresponding to Codes M6 and P2

---



---

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

---



---

Legend

---

Single contact

Double contact



Light block



Possible location

