## Product data sheet

Characteristics

## ZB5AH0683

## blue flush illuminated pushbutton head Ø22 push-push for integral LED

EAN Code: 3389110068436

| Product certifications | CSA[RETURN]BV[RETURN]LROS (Lloyds register of ship- <br> ping)[RETURN]DNV[RETURN]UL listed[RETURN]GL |
| :--- | :--- |
| Vibration resistance | $5 \mathrm{gn}(\mathrm{f}=2 \ldots 500 \mathrm{~Hz})$ conforming to IEC 60068-2-6 |
| Shock resistance | $30 \mathrm{gn}($ duration $=18 \mathrm{~ms})$ for half sine wave acceleration conforming to IEC |
|  | $60068-2-27$ |
| $50 \mathrm{gn}($ duration $=11 \mathrm{~ms})$ for half sine wave acceleration conforming to IEC |  |
| $60068-2-27$ |  |

Contractual warranty
Warranty 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.


| 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 | 1.18 | 32 |
| On printed circuit board | 30 | 30 | 1.26 |  |

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 $\left(\varnothing 22.3_{\left.0^{+0.4}\right)}^{\text {}}\right.$ / $\varnothing 0.89$ in. recommended ( $\varnothing 0.88$ in. $0^{+0.016}$ )


A: 30 mm min. / 1.18 in. 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: $\pm 230^{\prime}$ (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 $90 \mathrm{~mm} / 3.54 \mathrm{in}$. horizontally (X), and $120 \mathrm{~mm} / 4.72 \mathrm{in}$. 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•

- 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 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 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• .


Electrical Composition Corresponding to Codes M6 and P2


Legend

Single contact

Double contact

Light block

