## ZB5AS844 <br> red $\varnothing 40$ Emergency stop, switching off head $\varnothing 22$ trigger and latching turn release




## Environment

| Protective treatment | TH |
| :---: | :---: |
| Ambient air temperature for storage | $-40 . .70^{\circ} \mathrm{C}$ |
| Ambient air temperature for operation | $-40 . .70^{\circ} \mathrm{C}$ |
| Overvoltage category | Class II conforming to IEC 60536 |
| IP degree of protection | IP66 conforming to IEC 60529 <br> IP67 <br> IP69 <br> IP69K |
| NEMA degree of protection | NEMA 13 NEMA 4X |
| Resistance to high pressure washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance : 0.1 m |
| IK degree of protection | IK03 conforming to IEC 50102 |
| Product certifications | CSA <br> DNV <br> LROS (Lloyds register of shipping) <br> UL listed <br> GL <br> BV |
| Vibration resistance | $5 \mathrm{gn}(\mathrm{f}=2 \ldots 500 \mathrm{~Hz}$ ) conforming to IEC 60068-2-6 |
| Shock resistance | 30 gn (duration $=18 \mathrm{~ms}$ ) for half sine wave acceleration conforming to IEC 60068-2-27 <br> 50 gn (duration $=11 \mathrm{~ms}$ ) for half sine wave acceleration conforming to IEC 60068-2-27 |

Packing Units

| Unit Type of Package 1 | PCE |
| :--- | :--- |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 42 g |
| Package 1 Height | 5.4 cm |
| Package 1 width | 4.4 cm |
| Package 1 Length | 8.8 cm |
| Unit Type of Package 2 | S 03 |
| Number of Units in Package 2 | 100 |
| Package 2 Weight | 4.68 kg |
| Package 2 Height | 30 cm |
| Package 2 width | 30 cm |
| Package 2 Length | 40 cm |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 800 |
| Package 3 Weight | 47.804 kg |
| Package 3 Height | 77 cm |
| Package 3 width | 80 cm |
| Package 3 Length | 60 cm |

Offer Sustainability

| Sustainable offer status | Green Premium product |
| :--- | :--- |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
|  | EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
|  |  |
| 2 |  |


| China RoHS Regulation | China RoHS declaration |
| :--- | :--- |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Contractual warranty
Warranty
12 months

Product datasheet ZB5AS844
Dimensions Drawings

Dimensions


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

## 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 a and b).
- Tightening torque of screws ZBZO06: 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 $(\mathrm{X})$, 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 $\varnothing 2.4 \mathrm{~mm} / 0.09 \mathrm{in}$. for clipping in adapter ZBZO1•

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• •

## Product datasheet <br> ZB5AS844

Technical Description

Electrical Composition Corresponding to Code C7


## Product datasheet <br> ZB5AS844

Technical Description

Electrical Compositions Corresponding to Code C8


Technical Description

Electrical Compositions Corresponding to Code C10


## Product datasheet <br> ZB5AS844

Technical Description

Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1


Technical Description

Electrical Composition Corresponding to Code C15

1 N/O


1 N/C

$1 \mathrm{~N} / \mathrm{O}+\mathrm{N} / \mathrm{C}$ or $1 \mathrm{~N} / \mathrm{O}+\mathrm{N} / \mathrm{O}$ or $1 \mathrm{~N} / \mathrm{C}+\mathrm{N} / \mathrm{C}$


## Product datasheet <br> ZB5AS844

Technical Description

Legend

Single contact


Double contact


Light block


## Possible location



