

# Product data sheet

Specifications



Head for emergency stop push button, Harmony XB5, switching off, plastic, red mushroom 40mm, 22mm, trigger latching push pull release

ZB5AT84TQ

Product availability: Stock - Normally stocked in distribution facility

## Main

|                               |                                        |
|-------------------------------|----------------------------------------|
| Range of Product              | Harmony XB5                            |
| Product or Component Type     | Head for emergency stop push-button    |
| Product destination           | Emergency stop push-button             |
| Device short name             | ZB5                                    |
| Bezel material                | Dark grey plastic                      |
| Head type                     | Standard                               |
| Mounting diameter             | 0.9 in (22 mm)                         |
| Sale per indivisible quantity | 10                                     |
| Shape of signaling unit head  | Round                                  |
| Type of operator              | trigger action and mechanical latching |
| Reset                         | Push-pull                              |
| Operator profile              | Red mushroom Ø 40 mm, unmarked         |

## Complementary

|                             |                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width           | 1.6 in (40 mm)                                                                                                                                                                                                                           |
| CAD overall height          | 1.6 in (40 mm)                                                                                                                                                                                                                           |
| CAD overall depth           | 2.2 in (56 mm)                                                                                                                                                                                                                           |
| Mechanical durability       | 300000 cycles                                                                                                                                                                                                                            |
| Station name                | XALD 1 cut-out<br>XALK 1 cut-out                                                                                                                                                                                                         |
| Electrical composition code | C7 4 single front mounting<br>C8 4 single and double front mounting<br>C11 3 single front mounting<br>C15 1 single front mounting<br>SF1 3 single front mounting<br>SR1 3 single rear mounting<br>C10 4 single and double front mounting |
| Compatibility code          | ZB5                                                                                                                                                                                                                                      |

## 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) |

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

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 user applications

|                                    |                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overvoltage category               | Class II conforming to IEC 60536                                                                                                                                                        |
| IP degree of protection            | IP66 IEC 60529<br>IP67<br>IP69<br>IP69K                                                                                                                                                 |
| NEMA degree of protection          | NEMA 13<br>NEMA 4X                                                                                                                                                                      |
| Resistance to high pressure washer | 1015.3 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                                                                                                                            |
| IK degree of protection            | IK03 conforming to IEC 50102                                                                                                                                                            |
| Standards                          | IEC 60947-5-5<br>IEC 60364-5-53<br>IEC 60204-1<br>ISO 13850<br>JIS C8201-5-1<br>UL 508<br>IEC 60947-5-1<br>CSA C22.2 No 14<br>IEC 60947-5-4<br>IEC 60947-1<br>GB 14048.5<br>JIS C8201-1 |
| Product Certifications             | CSA<br>DNV<br>BV<br>LROS (Lloyds register of shipping)<br>UL Listed                                                                                                                     |
| Vibration resistance               | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                                        |
| Shock resistance                   | 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

|                   |               |
|-------------------|---------------|
| Category          | US10CS222467  |
| Discount Schedule | 0CS2          |
| GTIN              | 3389110885125 |
| Returnability     | Yes           |
| Country of origin | CZ            |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 1.61 in (4.100 cm)      |
| Package 1 Width              | 2.01 in (5.100 cm)      |
| Package 1 Length             | 3.39 in (8.600 cm)      |
| Package 1 Weight             | 1.340 oz (38.000 g)     |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 100                     |
| Package 2 Height             | 5.91 in (15.000 cm)     |
| Package 2 Width              | 11.81 in (30.000 cm)    |
| Package 2 Length             | 15.75 in (40.000 cm)    |
| Package 2 Weight             | 9.321 lb(US) (4.228 kg) |

# Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 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                       |   | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances             |    |                                                                                                                                                                                                                                                                                       |
|--------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging without single use plastic | No |                                                                                                                                                                                                                                                                                       |
| <a href="#">EU RoHS Directive</a>    |    | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                            |
| REACH Regulation                     |    | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                     |
| California proposition 65            |    | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

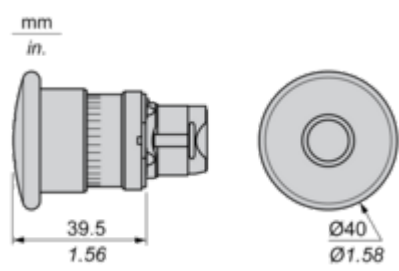
Use Again

| Repack and remanufacture |    |                                         |
|--------------------------|----|-----------------------------------------|
| Circularity Profile      |    | <a href="#">End of Life Information</a> |
| Take-back                | No |                                         |

Dimensions Drawings

Dimensions

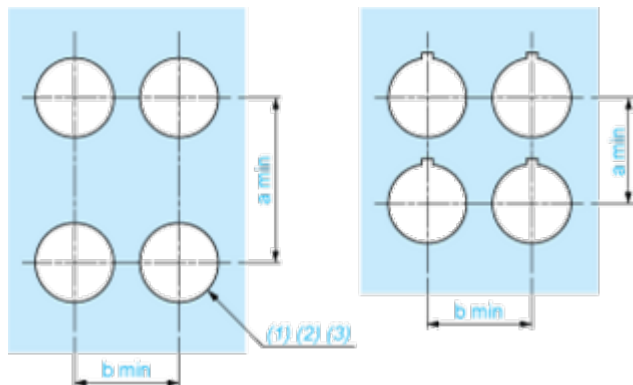
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Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

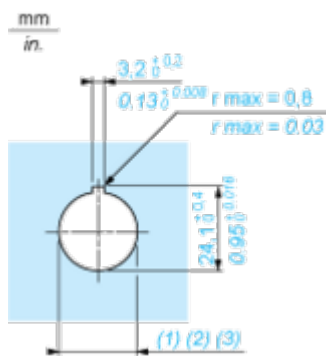
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (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) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

| 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     |

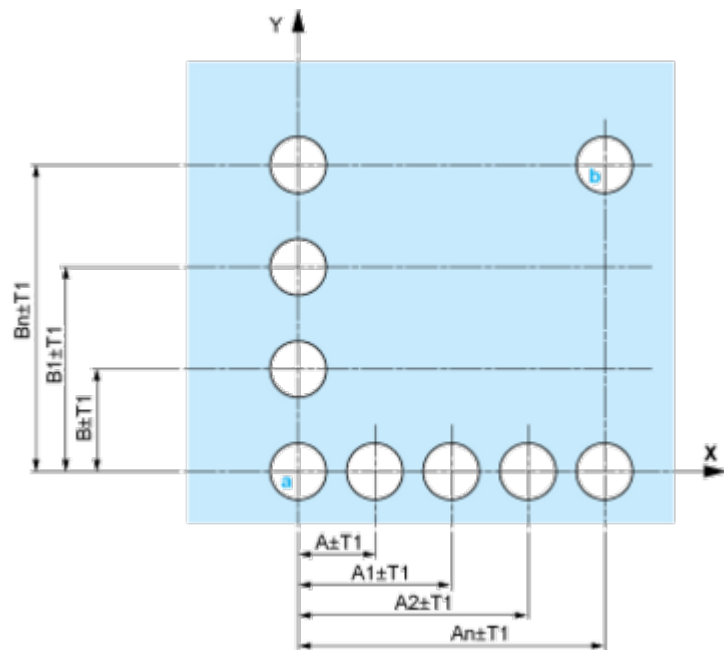
Detail of Lug Recess



- (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) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

Panel Cut-outs (Viewed from Installer’s Side)

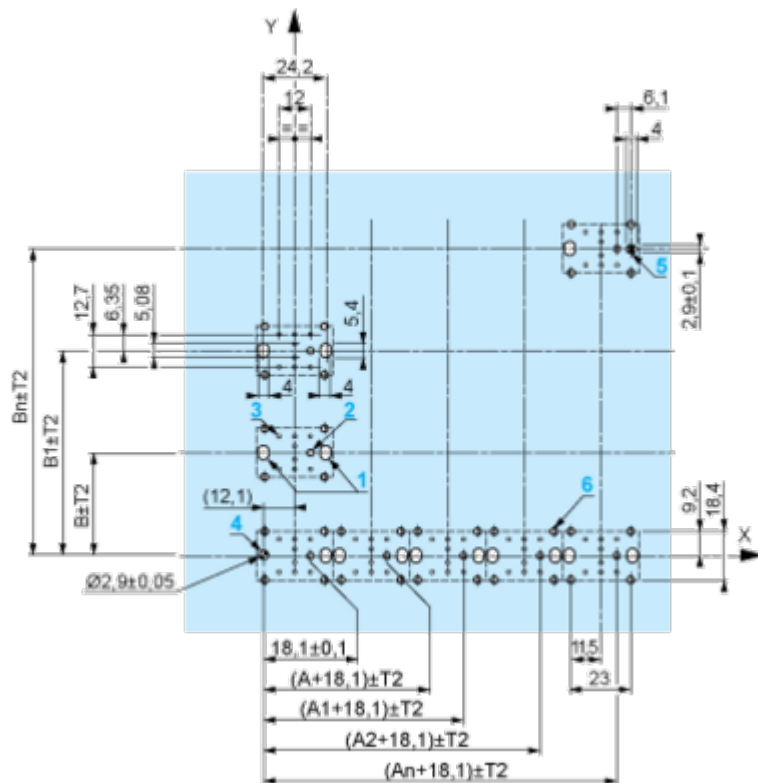


A: 30 mm min. / 1.18 in. min.

B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

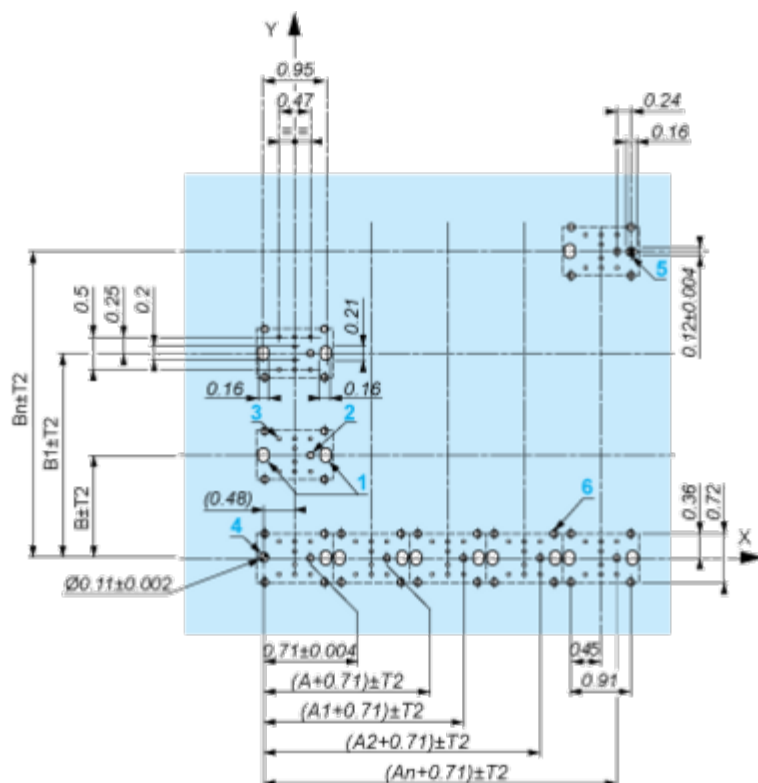
Dimensions in mm



A: 30 mm min.

B: 40 mm min.

Dimensions in in.



**A:** 1.18 in. min.

**B:** 1.57 in. min.

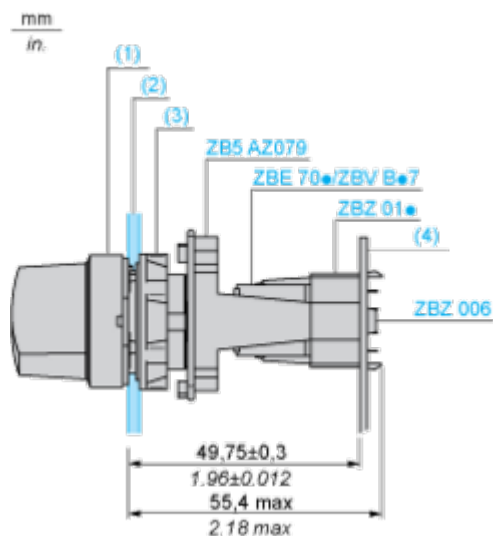
### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 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 ZB5AZ009:  $\pm$  2° 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZB2006: 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

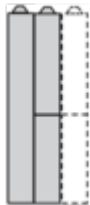
Electrical Composition Corresponding to Code C7

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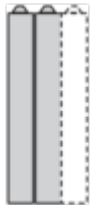
Electrical Compositions Corresponding to Code C8

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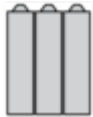


Electrical Compositions Corresponding to Code C10

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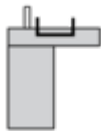
Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Electrical Composition Corresponding to Code C15

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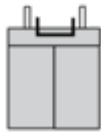
1 N/O



1 N/C



1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C



Legend

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Single contact



Double contact



Light block

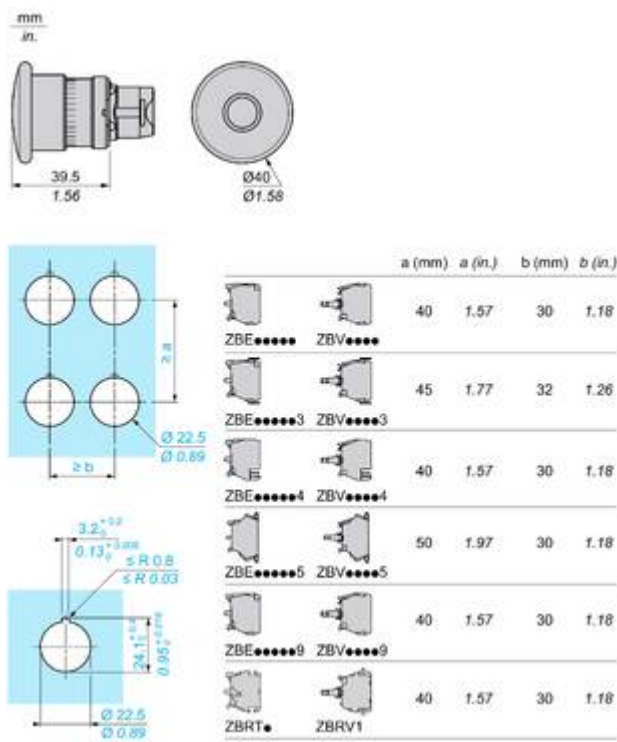


Possible location



Technical Illustration

Dimensions





Offer Marketing Illustration

Product benefits / Features

### Features

#### Harmony XB5 e-stop function



Wide modular range to suit machines and operator safety.



Ergonomic design for emergency actuation in several environments



Designed to fit in a standard 22mm cut-out or Harmony XALK control station ensuring compatibility with pre-existing machinery



Large set of accessories: circular legends, illuminated legend rings, protective bellows for harsh environments and protective guards.



Illuminated types to improve operator efficiency by reducing production downtime.

Offer Marketing Illustration

Product benefits / Features

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Technical Benefits

Harmony XB5 e-stop function

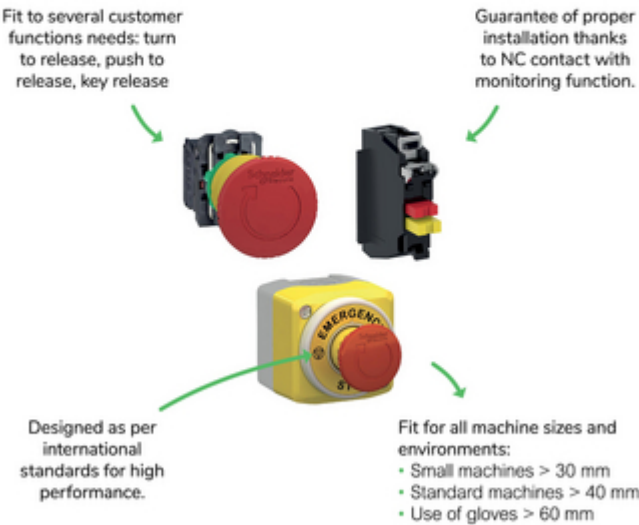
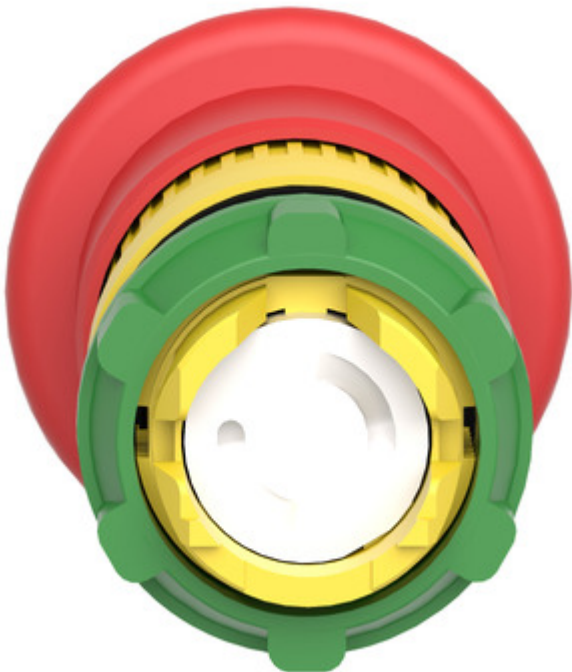


Image of product / Alternate images

Alternative

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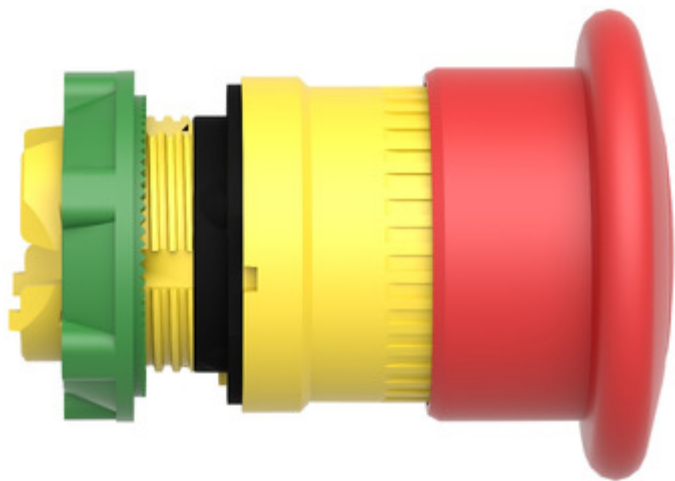




Image of product in real life situation

