

Аварийные выключатели ZStop

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Emergency Stop Switch ZStop

Operating Instructions

Correct Use / Function

ZStop are Emergency Stop Switches mounted on machines and sections of plant conveyors that cannot be protected by guards.

In combination with any dual channel safety relays or safety monitoring controllers, these switches can be used as emergency stop devices and monitored for up to Category 4/PLe to ISO13849-1.



Variants/ Types

Zander offers the following types:

- Compact plastic ZStop-S (3 pole)
- Compact Stainless Steel ZStop-SE (3pole)
- Stainless Steel ZStop-LE (4 pole)
- Stainless Steel ZStop-LEL (4 pole with LED)



Operation

All Emergency Stop Switches conform to European Standard EN ISO 13850 and IEC 60947-5-5. They have a positive mechanical linkage between the switch contacts and the E-Stop Button. The switches are mechanically latched and can then only be returned to the operational condition by a pressing the reset button as required by EN ISO 13850 and IEC 60947-5-5.

Installation/ Contact

1. Installation of all switches must be in accordance with a risk assessment for the individual application and in accordance with local wiring regulations and EN60204-1. Installation must only be carried out by competent personnel and in accordance with these instructions.
2. M4 mounting bolts must be used to fix the switches. Tightening torque for mounting bolts to ensure reliable fixing is 4 Nm. Tightening torque for the lid screws, conduit entry plugs and cable glands must be 1.5 Nm to ensure IP seal. Only use the correct size gland for the conduit entry and cable outside diameter.
3. Check operation of all switches and the control circuits by activating the switch (depress the Red Button) and resetting each switch by twisting the Red Button. Ensure each time that the switches latch off and require manual resetting.
4. For versions with the Protection Shroud ensure that the padlock size is suitable to prevent re-setting of the button.

Contact Block Options:

2 NC / 1 NO
ZStop-S, ZStop-SE



2 NC / 2 NO
ZStop-LE



3 NC / 1 NO
ZStop-LEL



Maintenance

Installation of all switches must be in accordance with a risk assessment for the individual application and in accordance with local wiring regulations and EN60204-1.

Every Month: Check correct operation of the control circuits and latching mechanism.
Inspect for damage to the E Stop button or casing. Replace any switch displaying damage.

Every 6 Months: Isolate power and remove cover. Check screw terminal tightness and check for signs of moisture ingress. Never attempt to repair any switch.

LED (only type ZStop-LEL)

LED Wiring examples (if fitted):

Black (or Terminal 2) is 0V (or Neutral for 110V and 230V ac versions).

When power is applied to the Red wire (or Terminal 1), the LED will illuminate Red.

When power is applied to the Green wire (or Terminal 3), the LED will illuminate Green.

LED has 2 colours

Recommended Colour Usage:

LED Red - Stopped

LED Green – Run



Emergency Stop Switch ZStop

Operating Instructions

Techn. Data

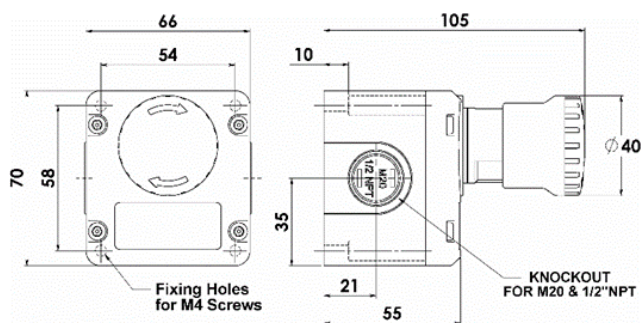
Corresponds to the standards	EN ISO 13850; IEC 60947-5-5; UL508
Approvals	UL
Safety Contact Type	IEC 60947-5-1 Double Break Type Zb
Contact material	Silber
Termination	Clamp up to 2.5 sq. mm conductors
Rating	Utilization Category: AC15
Operational Rating	AC15 A300 240V. 3A/120V 6A ac
Thermal Current (Ith)	10A
Rated Insulation Voltage (Ui)	500V
Withstand Voltage	2500V
Short Circuit Overload Protection	Fuse Externally 10A (FF)
Body material	Plastic (ZStop-S), Stainless steel 316 (ZStop SE, LE,LEL).
Dimensions	see next page
Protection	IP69K Stainless Steel (NEMA 6), IP67 Plastic
Temperature range	-25°C to +80°C

Safety Classification and Reliability Data

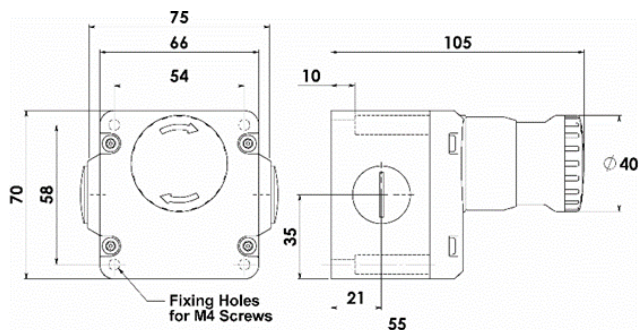
Mechanical Reliability B10d	1.5 x 10 ⁶ operations at 100mA load
ISO 13849-1	up to PLe depending on system architecture
EN 62061	up to SIL3 depending on system architecture
Safety Data - Annual Use	8 cycles per hour / 14 hours per day / 365 days
	MTTFd 214 years

Dimension

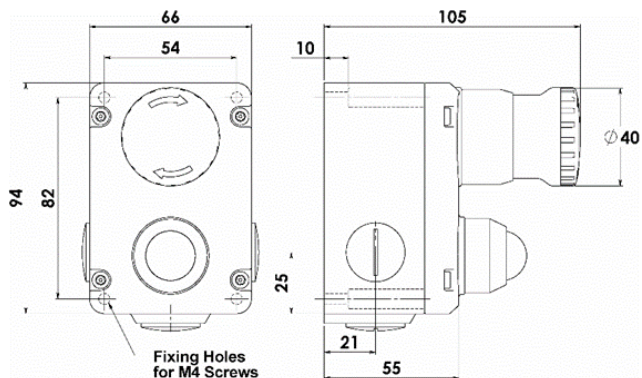
ZStop-S



ZStop-SE, ZStop-LE



ZStop-LEL



3D-CAD-Data available upon request (.step).

Emergency Stop Switch ZStop

Operating Instructions

Attention

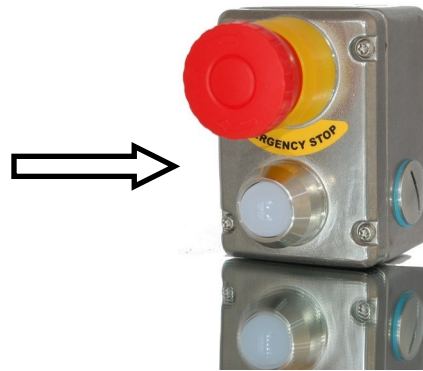


SPECIAL NOTE:

Where required by local regulations please affix the supplied yellow "EMERGENCY STOP" sticker as shown in the image.

**WARNING: DO NOT DEFEAT, TAMPER, OR BYPASS THE SAFETY FUNCTION.
FAILURE TO DO SO CAN RESULT IN DEATH OR SERIOUS INJURY.**

**AVERTISSEMENT: NE PAS DESACTIVER, MODIFIER, RETIRER, OU CONTOURNER CETI INTERVERROUIL-
LAGE IL PEUT EN RESULTE DES BLESSURES
GRAVES DU PERSONNEL UTILISATEUR.**



Variants & Accessories

Order No. 941600	ZStop-S (Plastic)
Order No. 941601	ZStop-SE (Stainless Steel)
Order No. 941602	ZStop-LE (Stainless Steel)
Order No. 941603	ZStop-LEL (Stainless Steel with LED)

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