

Description

The ZS71 is designed to provide continuous emergency stop along exposed areas of machinery and conveyors which present hazards to operators/maintenance personnel. Unlike E-stop pushbuttons, emergency-stop cable-pull systems can be actuated at any point along the "trip-wire."

The unit features a positive-opening NC contact which is forced open when the trip-wire is pulled. This design also assures actuation if the operator falls into, leans on, or is pushed against the trip-wire.

In addition, the switch is designed to operate if the trip wire is cut or goes slack.

Their rugged metal housing, small size and watertight design (IP65) make them ideal for use in hostile environments where space is limited.

Operation

The ZS71 features an axial actuating shaft and a double-pole contact block with either 1 NO & 1 NC or 2 NC contacts (with trip-wire attached). When installed, the trip-wire is pulled out 5 mm, closing the open contact.

When the trip-wire is pulled, the positive-break NC contact is forced open via a direct mechanical linkage with the actuating shaft. If the trip-wire goes slack (e.g. breaks or is cut) the NO contact, closed during pre-tensioning, opens – resulting in equipment stoppage.

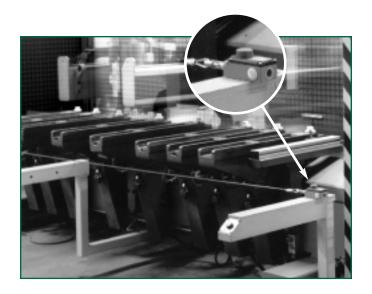
Manual (key or pushbutton) reset mechanisms assure the equipment cannot be restarted until the reset is actuated.

Typical Applications

The ZS71 is ideal for replacing multiple, discrete E-stop pushbuttons or achieving a continuous immediately accessible emergency stop ... especially where space is limited. Typical applications include conveyor lines, textile machinery, packaging machinery, turret lathes, and transfer lines.

Features & Benefits

- Rugged, corrosion-resistant, die-cast aluminum housing ... tolerates the most hostile environments.
- "Positive-break" NC contact ... assures circuit interruption upon pulling of trip wire.
- Visual position indicator ... for ease of installation.
- Push/pull operation ... actuates if trip-wire is pulled or goes slack.
- Watertight design ... meets IP65 requirements.
- Continuous E-stop protection ... for supported trip-wire spans up to 65 feet (20m).
- Meets rigid safety agency standards ... UL, CSA.
- Low actuating force ... operates with only 13.5 lbs of force. Ideal for short-run applications.
- Explosion protected ... optional IEC-rated explosion-proof models available.
- Mounting accessories ... ease and extend installation.



ZS71 AVAILABLE MODELS AND ACCESSORIES

AVAILABLE STANDARD MODELS

Part Number	Contact Configuration	Type Reset	Pre-Tensioned Force	Typical Actuating Force (F)	Maximum Cable Length
ZS71-10/1S WVDA-55N*	1 NO & 1 NC	Pushbutton	12.5 lbs (55N)	1.4 lbs (6N)	32.5 ft (10m)
ZS71-10/1S WVDA*	1 NO & 1 NC	Pushbutton	45.5 lbs (200N)	6 lbs (25N)	65 ft (20m)
ZS71-10/1S WVSA-55N*	1 NO & 1 NC	Key	12.5 lbs (55N)	1.4 lbs (6N)	32.5 ft (10m)
ZS71-10/1S WVSA*	1 NO & 1 NC	Key	45.5 lbs (200N)	6 lbs (25N)	65 ft (20m)
ZS71-20 WVDA-55N	2 NC	Pushbutton	12.5 lbs (55N)	1.4 lbs (6N)	32.5 ft (10m)
ZS71-20 WVDA	2 NC	Pushbutton	45.5 lbs (200N)	6 lbs (25N)	65 ft (20m)
ZS71-20 WVSA-55N	2 NC	Key	12.5 lbs (55N)	1.4 lbs (6N)	32.5 ft (10m)
ZS71-20 WVSA	2 NC	Key	45.5 lbs (200N)	6 lbs (25N)	65 ft (20m)

^{*}Available in an IEC-rated explosion-proof design. To order, add suffix "-EX" to part number.

AVAILABLE ACCESSORIES

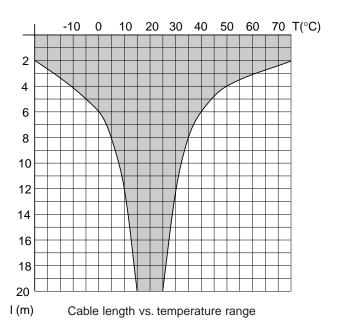
AVAILABLE AGGLGGGMLG				
Part Number	Description			
PL-PG13.5-24V	24V Pilot light kit			
PL-PG13.5-120V	120V Pilot light kit			
STQ441-SC	5mm diameter steel cable, PVC coated			
STQ441-EB	M10 eye bolt & hex nut			
STQ441-CC	Cable clamp			
STQ441-TB	Turnbuckle			
STQ441-TH	Thimble			
STQ441-PU	Pulley assembly (for cable "cornering")			

For recommended installation instructions, please see page 109.

ZS71 TECHNICAL DATA

MECHANICAL SPECIFICATIONS

Housing	Die-cast aluminum with fiberglass- reinforced thermoplastic cover
Degree of Protection	IP65
Maximum Supported Span	65 feet (20m)
Operating Temperature	-13°F to +158°F (-25°C to +70°C)
Mechanical Life	1 million operations
Conformity to Standards	EN418, UL, CSA
Minimum Cable Tension	6.7 lbs. (30N)
Typical Deflection (S) Required for Operation	4.4" (11cm)

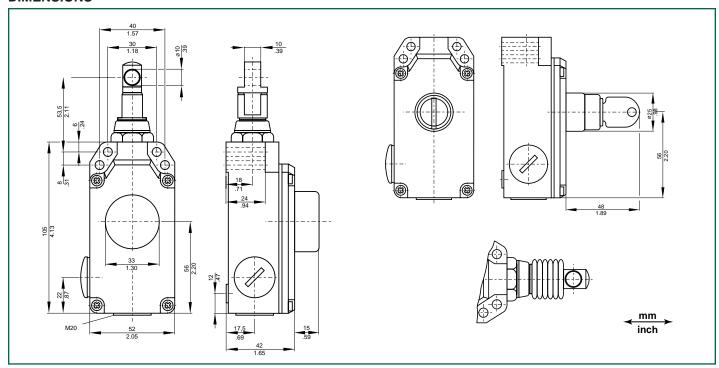


ELECTRICAL SPECIFICATIONS

Contacts	Fine silver
Contact Configuration	1 NO & 1 NC or 2 NC double- pole, double-break with electrically-separated contact bridges
Contact Rating	6A/400VAC
Switching Action	Slow-action, positive-break NC contacts (with wire pulling). Snapaction NO contact.
Short Circuit Protection	6A (external)
Type Terminals	Screw terminals with clamping washers

ZS71 TECHNICAL DATA

DIMENSIONS



SWITCHING DIAGRAMS & CONTACT SCHEMATICS

