



Conforms to IEC947-5-1, IEC947-5-5, EN418, UL508, BS5304
UL and C-UL listed



G

safety interlock switches

ER1032

Rope Pull Emergency Stop Switch

- Long rope spans up to 200 m (656 ft.) makes this switch ideal for applications where long rope spans are required
- Heavy-duty housing—the die-cast housing and stainless steel eye nut make the ER1032 suitable for demanding industrial applications
- IP67 (NEMA 6) enclosure enables the ER1032 switch to withstand water washdown cleaning
- Integral E-stop—the E-stop button provides emergency stopping capability at the extreme end of the installation and is field serviceable
- Tension indicator—the tension indicator makes the system easy to set up and to maintain the proper rope tension
- 4 N/C safety contacts and 2 N/O auxiliary contacts satisfy the most demanding applications
- Vibration tolerant—the snap-acting switch contacts protect against nuisance tripping due to vibration
- Long life—the ER1032 switch is designed for a minimum of one million actuations
- Indicator beacon—the indicator beacon, available in 24 VDC or 120 VAC can be wired to flash red to indicate a tripped switch or glow a constant green to indicate a properly reset switch



Go to the Engineering Guide
For in-depth information on safety standards and use.



■ Operation



Blue Reset Knob

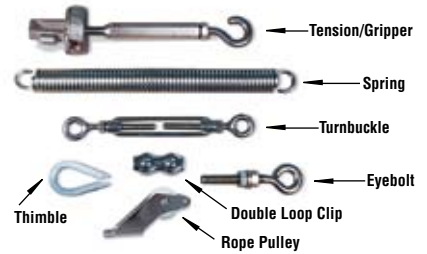
A blue reset button is provided to easily return the unit back to its machine-run position after actuation.

Installation Hardware Available



RK Rope Tension Kit

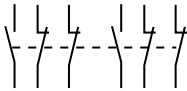
The RK Rope Tension Kit comes with all of the required hardware for most installations. A spring is required as shown in the installation example below.



Installation Hardware

Individual hardware items may be purchased for specific installation requirements.

Contact Arrangements



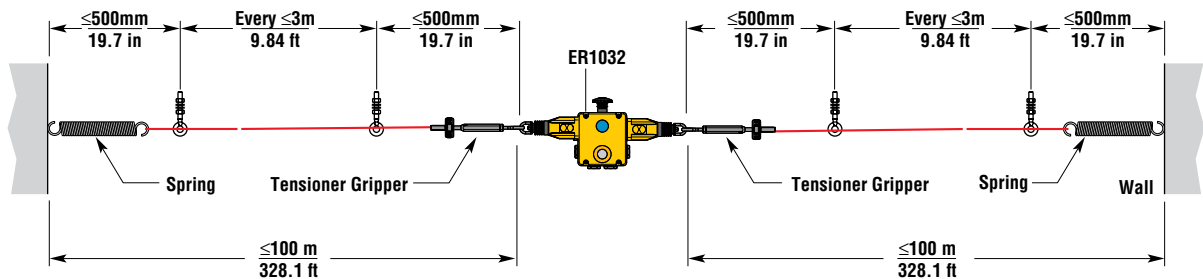
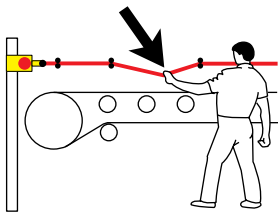
| | 0 mm 0 in | 4.0 0.16 | 15.0 0.59 | 17.0 0.67 |
|-----------|--------------|---------------|--------------|--------------|
| 4NC + 2NO | Rope Slack | Tension Range | Rope Pulled | |
| 11/12 | | | | |
| 21/22 | | | | |
| 33/34 | | | | |
| 41/42 | | | | |
| 51/52 | | | | |
| 63/64 | | | | |

☐ Contact Open ■ Contact Closed

G

safety interlock switches

Mounting Specification



Note: Some installations may require a ER1022 on each end.



For a guide to installing, see "Proper Installation of Rope or Wire Pull Switches" in the Engineering Section of this catalog.



OMRON SCIENTIFIC TECHNOLOGIES, INC.
USA Tel. 1/888/510-4357 Canada Tel. 1/866/986-6766

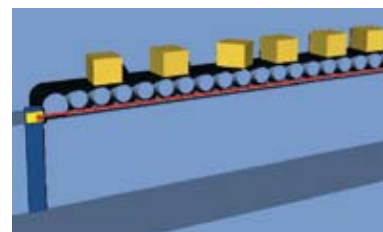
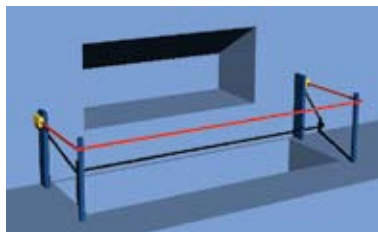


For the Latest Information
On the Internet: www.sti.com or www.omron.ca



■ Applications

Typical applications are on conveyor systems and across rotating machinery, and around hazardous areas.



■ Specifications

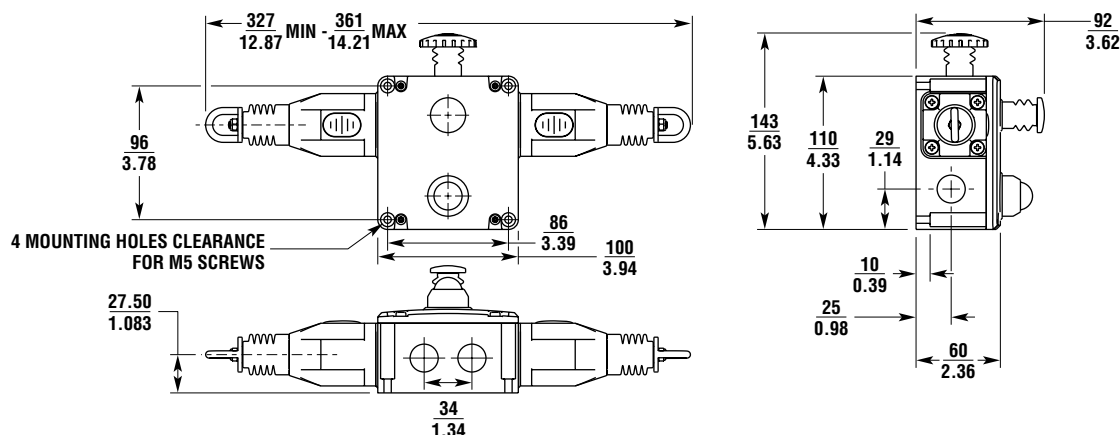
| Electrical | All Models |
|--|--|
| Contact Configurations: | 4 N/C + 2 N/O |
| Safety Contacts: | 4 N/C |
| Switching Ability | |
| AC: | 240 V–3 A, 120 V–6 A, Inductive |
| DC: | 24 V–2.5 A, Inductive |
| Auxiliary Contacts: | 2 N/O |
| Max Switching Current/Volt/Amp: | 240 V/720 VA |
| Minimum Current: | 5 V 5 mA DC |
| Electrical Life: | 1 x 10 ⁶ minimum |
| LED Indicator Beacon | 24 VDC or 120 VAC |
| Mechanical | |
| Mounting: | Any position |
| Mounting Hardware: | 4 x M5 screws |
| Actuator Travel for Positive Opening: | See diagrams on previous page |
| Max Rope Span: | 125 m (410 ft.) |
| Operation Force: | < 125 N (28 lb.) |
| Tensioning Force to Run Position: | 130 N (23 lb.) typical |
| Case Material: | Die-cast aluminum alloy |
| Eye Nut Material: | Stainless steel |
| Wiring Entry: | 4 x M20 or 4 x 0.5 in. NPT |
| Weight: | 1320 g (42 oz.) |
| Color: | Yellow |
| Mechanical Life: | 1 x 10 ⁶ minimum |
| Environmental | |
| Protection: | IP67 (NEMA 6) |
| Operating Temperature: | -25 to 80°C (-13 to 176°F) |
| Cleaning: | Water washdown |
| Compliance | |
| Standards: | IEC947-5-1, IEC947-5-5, EN418, UL508, BS5304 |
| Approvals/Listings: | CE marked for all applicable directives, UL and C-UL |

Specifications are subject to change without notice.

Note: The safety contacts of the Omron STI switches are described as normally closed (N/C)—i.e., with the rope properly tensioned and the machine able to be started.

A Go to the Engineering Guide
For in-depth information on
safety standards and use.

■ Dimensions — mm/in.



■ Ordering

| Model | E-Stop | Indicator Beacon | Contacts | Wiring Entry | Part No. |
|-----------------|----------|--------------------|---------------|-----------------|------------|
| ER1032-042MEL | Included | Included (24 VDC) | 4 N/C + 2 N/O | 4 x M20 | 44506-7410 |
| ER1032-042MELAC | Included | Included (120 VAC) | 4 N/C + 2 N/O | 4 x M20 | 44506-7411 |
| ER1032-042NEL | Included | Included (24 VDC) | 4 N/C + 2 N/O | 4 x 1/2 in. NPT | 44506-7420 |
| ER1032-042NELAC | Included | Included (120 VAC) | 4 N/C + 2 N/O | 4 x 1/2 in. NPT | 44506-7421 |

| | Part No. |
|--|------------|
| SM06-SL711, Replacement Lid/LED, 24 VDC | 44506-7710 |
| SM06-SL711AC, Replacement Lid/LED, 120 VAC | 44506-7711 |
| RK5, 5 m Rope Kit, Stainless Steel | 44506-2705 |
| RK10, 10 m Rope Kit, Stainless Steel | 44506-2710 |
| RK15, 15 m Rope Kit, Stainless Steel | 44506-2715 |
| RK20, 20 m Rope Kit, Stainless Steel | 44506-2720 |
| RK30, 30 m Rope Kit, Stainless Steel | 44506-2730 |
| RK50, 50 m Rope Kit, Stainless Steel | 44506-2750 |
| RK80, 80 m Rope Kit, Stainless Steel | 44506-2780 |
| RK100, 100 m Rope Kit, Stainless Steel | 44506-2711 |
| RK126, 126 m Rope Kit, Stainless Steel | 44505-2726 |
| R5M, 5 m Rope Only | 44506-3705 |
| R10M, 10 m Rope Only | 44506-3710 |
| R20M, 20 m Rope Only | 44506-3720 |
| R30M, 30 m Rope Only | 44506-3730 |
| R50M, 50 m Rope Only | 44506-3750 |
| R80M, 80 m Rope Only | 44506-3780 |
| R100M, 100 m Rope Only | 44506-3711 |
| R126M, 126 m Rope Only | 44506-3726 |

| | Part No. |
|--|------------|
| SM06-TG00, Tensioner Gripper, Stainless Steel | 44506-4700 |
| SM06-EB10, Eye Bolt Stainless Steel, 8 per pack | 44506-4710 |
| SM06-DL20, Double Loop Clip, Stainless Steel, 4 per pack | 44506-4720 |
| SM06-DL21, Double Loop Clip, Galvanized, 4 per pack | 44506-4721 |
| SM06-THSS, Thimble Stainless Steel, 4 per pack | 44506-4770 |
| SM06-THGV, Thimble Galvanized, 4 per pack | 44506-4771 |
| SM06-TB30, Turnbuckle, Stainless Steel | 44506-4730 |
| SM06-TB31, Turnbuckle, Galvanized | 44506-4731 |
| SM06-SP50, Spring, Stainless Steel | 44506-4750 |
| SM06-RPSS, Rope Pulley, Stainless Steel | 44506-4780 |
| SM06-ES60, E-Stop Mechanism | 44506-4760 |
| SM06-LF40, Replacement LED Indicator Beacon, 24 VDC | 44506-4740 |
| SM06-LF41, Replacement LED Indicator Beacon, 120 VAC | 44506-4741 |

G

safety interlock switches