SpeedSPEC
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ER1032

## Rope Pull Emergency Stop Switch

- Rope spans up to 200 m (656 ft.) makes this switch ideal for applications where long rope spans are required
- 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 makes system setup and rop tension maintenance easy
- 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
- 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
- Rubber bellows contain UV inhibitor making the switches suitable for outdoor applications
- A Rapid Delivery Product: Selected models are available for shipment today or within 3 to 5 days

CE  UL c us  TÜV

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

## 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: | $1 \times 10^6$ minimum |
| LED Indicator Beacon | 24 VDC or 120 VAC |
| **Mechanical** | |
| Mounting: | Any position |
| Mounting Hardware: | 4 x M5 screws |
| Max Rope Span: | 200 m (656 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 |
| Stainless Accessory Items: | 304 Stainless Steel |
| Wiring Entry: | 4 x M20 or 4 x 0.5 in. NPT |
| Weight: | 1320 g (42 oz.) |
| Color: | Yellow |
| Mechanical Life: | $1 \times 10^6$ 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, TUV |

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.

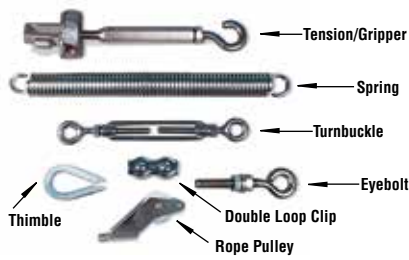**Selected models are available for Rapid Delivery.**

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# Operation



**Blue Reset Knob**
A blue reset button is provided to easily return the unit back to its machine-run position after actuation.
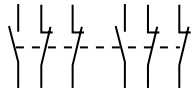
## Installation Hardware Available



Tension/Gripper
Spring
Turnbuckle
Eyebolt
Thimble
Double Loop Clip
Rope Pulley

**Installation Hardware**
Individual hardware items may be purchased for specific installation requirements.



**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.
For up to 50 m rope span, one rope end is terminated with a thimble, permanent clamp, and quick link attached.
For over 50 m rope span, 2 Tension/Gripper assemblies are supplied (no quick link.)
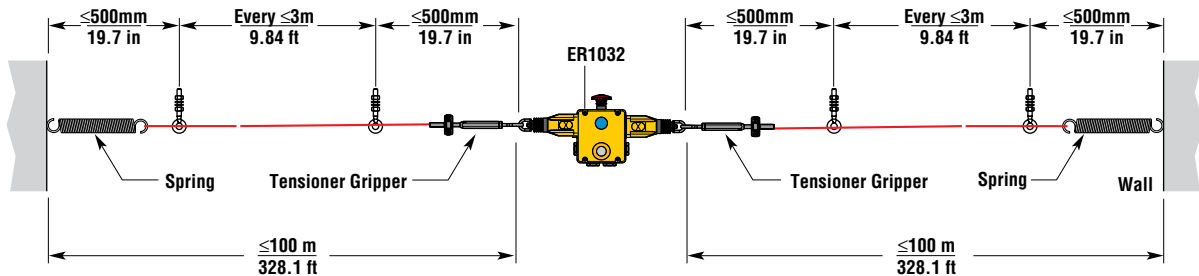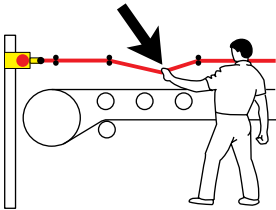
## Contact Arrangements



| | 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

## Mounting Specification



≤500mm 19.7 in | Every ≤3m 9.84 ft | ≤500mm 19.7 in | | ≤500mm 19.7 in | Every ≤3m 9.84 ft | ≤500mm 19.7 in

ER1032

Spring | Tensioner Gripper | Tensioner Gripper | Spring | Wall

≤100 m 328.1 ft | ≤100 m 328.1 ft

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 Safety Library Section of this catalog on page A81.

**Selected models are available for Rapid Delivery.**

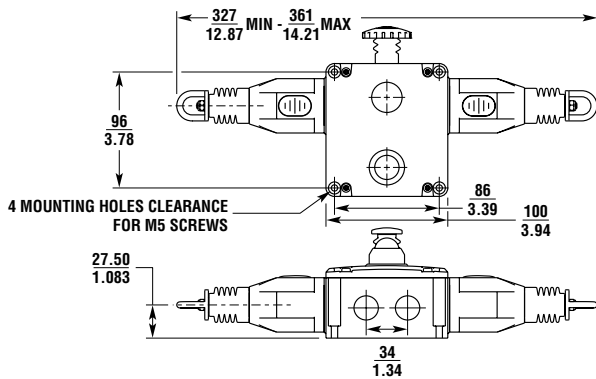Visit this product on www.sti.com for details
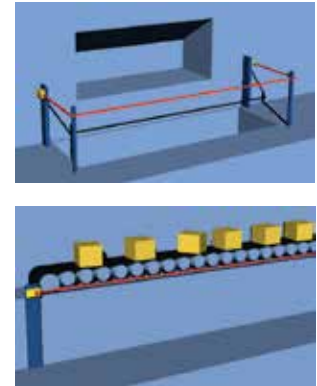
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## Dimensions (mm/in.)



4 MOUNTING HOLES CLEARANCE
FOR M5 SCREWS

## Applications

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

## 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 |

| Accessories | | | | | Part No. |
|---|---|---|---|---|---|
| **Stainless Steel Rope Kits** | Quick Link | Eye-bolts | Tension/ Gripper Assembly | Allen Wrench | |
| RK5, 5 m Kit | Yes | 3 | 1 | 1 | 44506-2705 |
| RK10, 10 m Kit | Yes | 5 | 1 | 1 | 44506-2710 |
| RK15, 15 m Kit | Yes | 7 | 1 | 1 | 44506-2715 |
| RK20, 20 m Kit | Yes | 9 | 1 | 1 | 44506-2720 |
| RK30, 30 m Kit | Yes | 12 | 1 | 1 | 44506-2730 |
| RK50, 50 m Kit | Yes | 20 | 1 | 1 | 44506-2750 |
| RK80, 80 m Kit | No | 30 | 2 | 2 | 44506-2780 |
| RK100, 100 m Kit | No | 37 | 2 | 2 | 44506-2711 |
| RK126, 126 m Kit | No | 45 | 2 | 2 | 44505-2726 |
| **Rope Only** | | | | | |
| 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 |

| Accessories | Part No. |
|---|---|
| SM06-SL711, Replacement Lid/LED, 24 VDC | 44506-7710 |
| SM06-SL711AC, Replacement Lid/LED, 120 VAC | 44506-7711 |
| SM06-TK00, Tensioner Kit (Turnbuckle, 8 Rope Grips & 4 Thimbles) | 44506-0700 |
| SM06-TG00, Tensioner Gripper, Stainless Steel | 44506-4700 |
| SM06-EB10, Eye Bolt, Stainless Steel, 8 per pack | 44506-4710 |
| SM06-EB20, Eye Bolt, Galvanized | 44506-0720 |
| 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-SP30, Spring, Galvanized | 44506-0730 |
| SM06-SP50, Spring, Stainless Steel | 44506-4750 |
| SM06-RPSS, Rope Pulley, Stainless Steel | 44506-4780 |
| SM06-ES60, E-Stop Mechanism | 44506-4760 |
| SM06-SL711, Replacement Lid with LED 24 VDC | 44506-7710 |
| SM06-SL711AC, Replacement Lid with LED 120 VAC | 44506-7711 |

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