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ER6022

For full product information, visit www.sti.com. Use the SpeedSPEC Code for quick access to the specific web page.

Rope Pull Emergency Stop Switch

- Rope spans up to 80 m (262 ft.) means fewer number of switches required per application
- Tension indicator makes system setup and rope tension maintenance easy
- Contact arrangements of 2 N/C + 1 N/O, 3 N/C + 1 N/O or 2 N/C + 2 N/O
- IP67 (NEMA 6) enclosure enables the ER6022 switch to withstand water washdown cleaning
- Reset button—the blue reset button must be pushed in order to return to “machine run” condition following switch actuation by a pulled or slacked rope
- Indicator beacon—the optional dual 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
- E-stop button—the ER6022 has two mounting positions where the optional E-stop button may be installed; the E-stop button may be added or replaced in the field
- Rubber bellows contain UV inhibitor making the switches suitable for outdoor applications



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

Specifications

| Electrical | All Models |
|-----------------------------------|--|
| Contact Configurations: | 2 N/C + 1 N/O, 3 N/C + 1 N/O, 2 N/C + 2 N/O |
| Safety Contacts: | 2 N/C, 3 N/C |
| Switching Ability | AC: 240 V–3 A, 120 V–6 A, Inductive, DC: 24 V–2.5 A, Inductive |
| Auxiliary Contacts: | 1 N/O, 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 |
| Mechanical | |
| LED Indicator Beacon: | 24 VDC, 120 VAC |
| Mechanical | 1 million minimum |
| Mounting: | Any position |
| Mounting Hardware: | 4 x M5 screws |
| Max Rope Span: | 80 m (262 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: | 3 x M20 or 3 x 0.5 in. NPT |
| Weight: | 880 g (31 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, TUV |

Specifications are subject to change without notice.

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

Operation



Blue Reset Knob

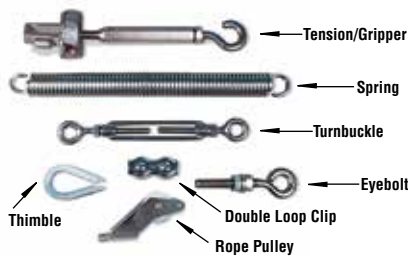
A blue reset button is provided to easily return the unit back to its machine-run position after actuation.



Emergency Push Button

The emergency push button may be installed or repositioned in the field. The ER6022 has two possible mounting positions for the emergency stop button.

Installation Hardware Available



Installation Hardware

Individual hardware items may be purchased for specific installation requirements.



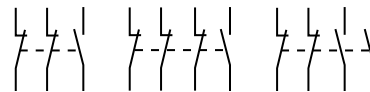
RK Rope Tension Kit

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.)

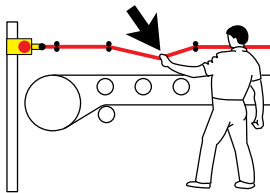
Contact Arrangements



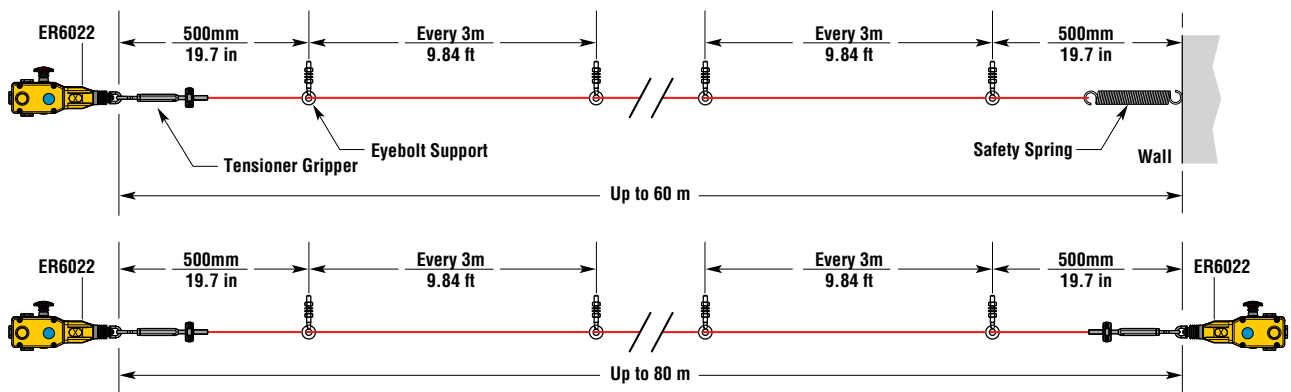
| | 0 mm 0 in | 3.5 0.14 | 14.5 0.57 | 17.0 0.67 |
|---------------------------|-------------------|----------------------|--------------------|--------------|
| 2NC + 1NO Versions | Rope Slack | Tension Range | Rope Pulled | |
| 11/12 | | | | |
| 21/22 | | | | |
| 33/34 | | | | |
| 3NC + 1NO Versions | Rope Slack | Tension Range | Rope Pulled | |
| 11/12 | | | | |
| 21/22 | | | | |
| 33/34 | | | | |
| 43/44 | | | | |
| 2NC + 2NO Versions | Rope Slack | Tension Range | Rope Pulled | |
| 11/12 | | | | |
| 21/22 | | | | |
| 33/34 | | | | |
| 43/44 | | | | |

Contact Open Contact Closed

Mounting Specification

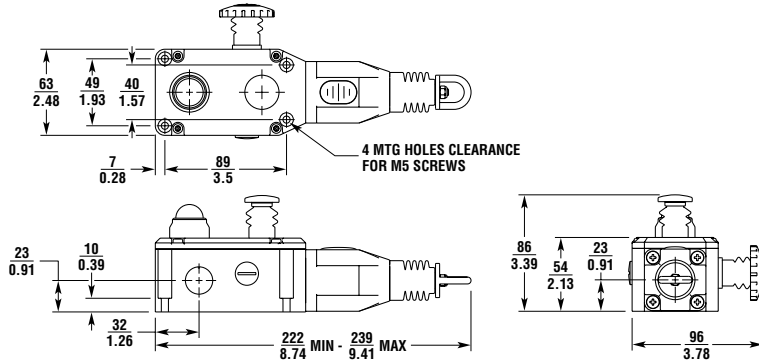


For a guide to installing, see "Proper Installation of Rope or Wire Pull Emergency Stop Devices" in the Expert Area Section of this catalog on page A-78.

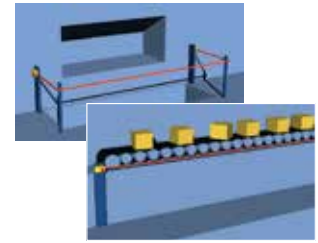


Dimensions

(mm/in.) 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. |
|---|--------------|-------------------|---------------|-----------------|------------|
| ER Switches with 3 pole contact blocks | | | | | |
| ER6022-021M | Not included | Not included | 2 N/C + 1 N/O | 3 x M20 | 44506-5010 |
| ER6022-021N | Not included | Not included | 2 N/C + 1 N/O | 3 x 1/2 in. NPT | 44506-5020 |
| ER6022-021ME | Included | Not included | 2 N/C + 1 N/O | 3 x M20 | 44506-5210 |
| ER6022-021NE | Included | Not included | 2 N/C + 1 N/O | 3 x 1/2 in. NPT | 44506-5220 |
| ER6022-021MEL | Included | Included | 2 N/C + 1 N/O | 3 x M20 | 44506-5410 |
| ER6022-021NEL | Included | Included | 2 N/C + 1 N/O | 3 x 1/2 in. NPT | 44506-5420 |
| ER6022-021NELAC | Included | Included, 120 VAC | 2 N/C + 1 N/O | 1/2" NPT | 44506-5423 |
| ER Switches with 4 pole contact blocks | | | | | |
| ER6022-031M | Not included | Not included | 3 N/C + 1 N/O | M20 | 44506-5050 |
| ER6022-031N | Not included | Not included | 3 N/C + 1 N/O | 1/2 in. NPT | 44506-5060 |
| ER6022-022M | Not included | Not included | 2 N/C + 2 N/O | M20 | 44506-5070 |
| ER6022-022N | Not included | Not included | 2 N/C + 2 N/O | 1/2 in. NPT | 44506-5080 |
| ER6022-031ML | Not included | Included, 24 VDC | 3 N/C + 1 N/O | M20 | 44506-5150 |
| ER6022-031NL | Not included | Included, 24 VDC | 3 N/C + 1 N/O | 1/2 in. NPT | 44506-5160 |
| ER6022-022ML | Not included | Included, 24 VDC | 2 N/C + 2 N/O | M20 | 44506-5170 |
| ER6022-022NL | Not included | Included, 24 VDC | 2 N/C + 2 N/O | 1/2 in. NPT | 44506-5180 |
| ER6022-031ME | Included | Not included | 3 N/C + 1 N/O | M20 | 44506-5250 |
| ER6022-031NE | Included | Not included | 3 N/C + 1 N/O | 1/2 in. NPT | 44506-5260 |
| ER6022-022ME | Included | Not included | 2 N/C + 2 N/O | M20 | 44506-5270 |
| ER6022-022NE | Included | Not included | 2 N/C + 2 N/O | 1/2 in. NPT | 44506-5280 |
| ER6022-031MEL | Included | Included, 24 VDC | 3 N/C + 1 N/O | M20 | 44506-5450 |
| ER6022-031NEL | Included | Included, 24 VDC | 3 N/C + 1 N/O | 1/2 in. NPT | 44506-5460 |
| ER6022-022MEL | Included | Included, 24 VDC | 2 N/C + 2 N/O | M20 | 44506-5470 |
| ER6022-022NEL | Included | Included, 24 VDC | 2 N/C + 2 N/O | 1/2 in. NPT | 44506-5480 |
| ER6022-031NELAC | Included | Included, 120 VAC | 3 N/C + 1 N/O | 1/2 in. NPT | 44506-5463 |
| ER6022-022NELAC | Included | Included, 120 VAC | 2 N/C + 2 N/O | 1/2 in. NPT | 44506-5483 |

| 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-SL500, Replacement Lid 24 VDC | 44506-5700 |
| SM06-SL510, Replacement Lid/LED 24 VDC | 44506-5710 |
| SM06-SL510AC, Replacement Lid/LED 120 VAC (consult factory for complete switch with 120 VAC beacon) | 44506-5711 |
| 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-THS5, Thimble, Stainless Steel, 4 per pack | 44506-4770 |
| SM06-THGV, Thimble, Galvanized, 4 per pack | 44506-4771 |
| SM06-QLSS, Quick Link, Stainless Steel | 44506-4772 |
| 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-LF40, Replacement LED Indicator Beacon, 24 VDC | 44506-4740 |
| SM06-LF41, Replacement LED Indicator Beacon, 120 VAC | 44506-4741 |

Safety Precautions

Operating instructions

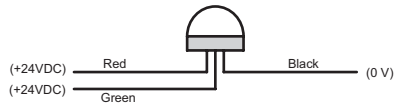
Installation must be in accordance with the following steps and stated specifications and should be carried out by suitably competent personnel. Adherence to the recommended maintenance instructions forms part of the warranty.

WARNING Do not defeat, tamper, remove or bypass this unit. Severe injury to personnel could result.

Optional 24 VDC Indicator Beacon

When +24VDC is applied to the **red** wire, the beacon will illuminate red and flash.

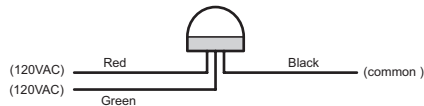
When +24 VDC is applied to the **green** wire, the beacon will illuminate green.



Optional 120 VAC Indicator Beacon

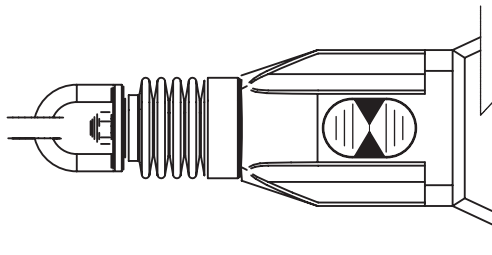
When +120VAC is applied to the **red** wire, the beacon will illuminate red and flash.

When +120 VAC is applied to the **green** wire, the beacon will illuminate green.



Tension Indicator

Indicator shown with steel rope properly adjusted.



WARNING

1. Installation of all Safety Rope Switch systems must be in accordance with a risk assessment for the individual application. Installation must only be carried out by competent personnel and in accordance with these instructions.
2. Rope support eyebolts must be fitted at 2.5 m. min. to 3 m. max. intervals along all rope lengths between switches. The rope must be supported no more than 500 mm from the switch eyebolt or Safety Spring (if used). It is important that this first 500 mm is not used as part of the active protection coverage.
3. M5 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 correct sizing glands for conduit entry and cable outside diameter.
4. Tensioning of rope is achieved by use of tensioner / gripper assemblies. Upon installation, tension to mid-position as indicated by the red arrows in the viewing window of each switch. Check operation for all switches and the control circuits by pulling the rope at various locations along the active protection area and resetting each switch by depressing the Blue Reset button. Ensure each time that the switches latch off and require manual resetting by depressing the Blue Reset button. Increase the system tension further, if required, depending upon the checks along the active length of coverage. If fitted with a Mushroom type E-Stop button (Red) then test and reset each switch to ensure function of control circuits. Typical operational conditions for successful operation of system is less than 75 N. pulling force and less than 150 mm deflection of rope between eyebolt supports. If the optional LED is fitted but is not used, ensure that the conductors remain coiled and tied to the tie hole in the LED flange.
5. Every week: Check correct operation of system at locations along all coverage length. Check for nominal tension setting, re-tension rope if necessary. 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.

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 - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Product.

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