

# ER6022-SS

## Stainless Steel Rope Pull Emergency Stop Switch

- Rope spans up to 100 m (328 ft.) means fewer number of switches required per application
- Tension indicator maintains the proper rope tension
- Contact arrangements of 3 N/C + 1 N/O or 2 N/C + 2 N/O
- IP67 (NEMA 6) enclosure withstands water washdown cleaning
- 316 stainless steel cast housing and stainless steel hardware
- 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
- Vibration tolerant—the snap-acting switch contacts protect against nuisance tripping due to vibration
- Indicator beacon—the dual indicator beacon is optional on the ER6022-SS; the indicator beacon can be wired to flash red to indicate a tripped switch or glow a constant green to indicate a properly reset switch
- Optional E-stop button—may be added or replaced in the field
- Rubber bellows contain UV inhibitor making the switches suitable for outdoor applications
- Extreme Cold Version—for applications down to -40°C



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

## Specifications

Electrical	ER6022-SS
Contact Configurations:	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 <sup>6</sup> minimum
LED Indicator Beacon:	24 VDC
Mechanical	
Mounting:	Any position
Mounting Hardware:	4 x M5 screws
Max Rope Span:	100 m (328 ft.)
Operation Force:	< 125 N (28 lb.)
Tensioning Force to Run Position:	130 N (23 lb.) typical
Case Material:	Die-cast 316 stainless steel
Eye Nut Material:	304 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:	Natural
Mechanical Life:	1 x 10 <sup>6</sup> minimum
Environmental	
Protection:	IP67 (NEMA 6)
Operating Temperature:	Standard Versions: -25 to 80°C (-13 to 176°F) Extreme Cold Versions: -40 to 80°C (-40 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

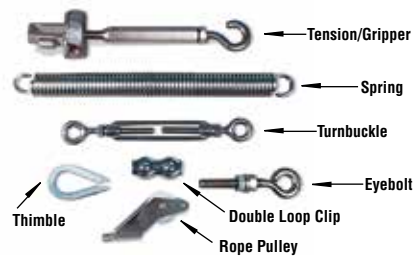
A blue reset button is provided to easily return the unit back to its machine-run position after actuation.



### Emergency Push Button

The emergency push button may be installed or repositioned in the field. The ER6022-SS has two possible mounting positions for the emergency stop button. To assure compliance with all applicable European and Canadian standards, the supplied yellow background label must be applied.

## Installation Hardware Available



### Installation Hardware

Individual hardware items may be purchased for specific installation requirements.



### RK Rope Tension Kit

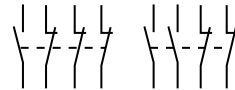
The RK Rope Tension Kit comes with all of the required hardware for most installations. A spring is required as shown in the installation example below.

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.)

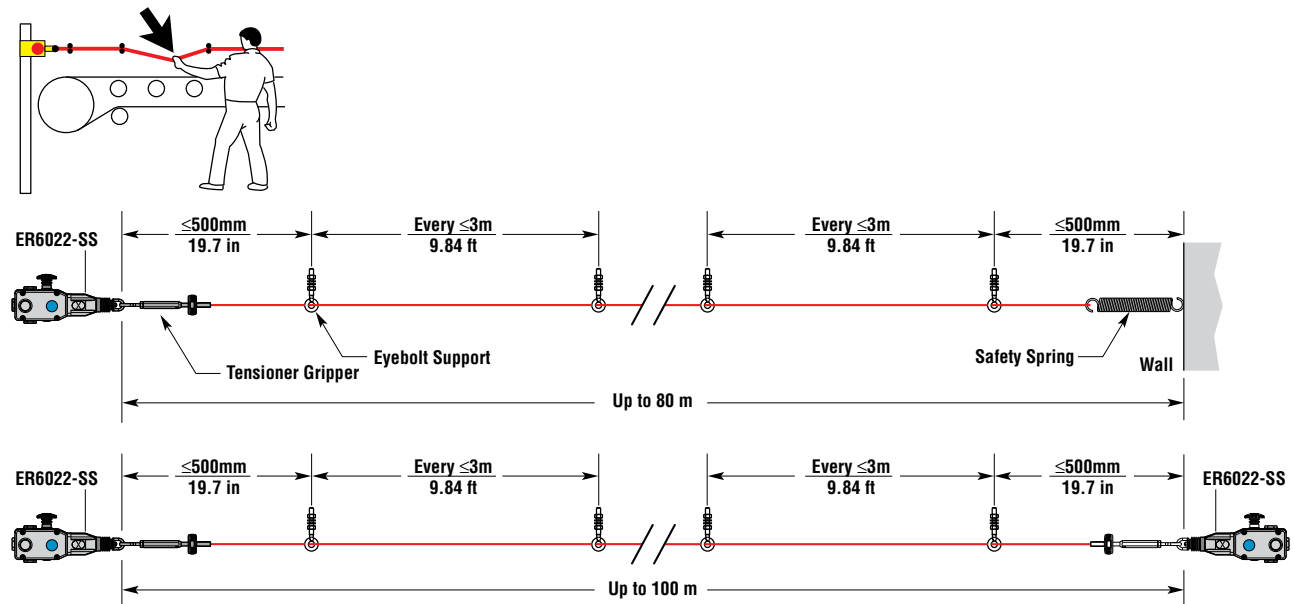
## Contact Arrangements

ER6022-SS



ER6022-SS	0 mm 0 in	3.5 0.14	14.5 0.57	17.0 0.67
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				

## Mounting Specification

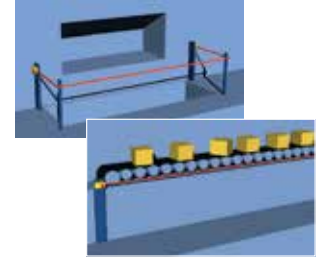
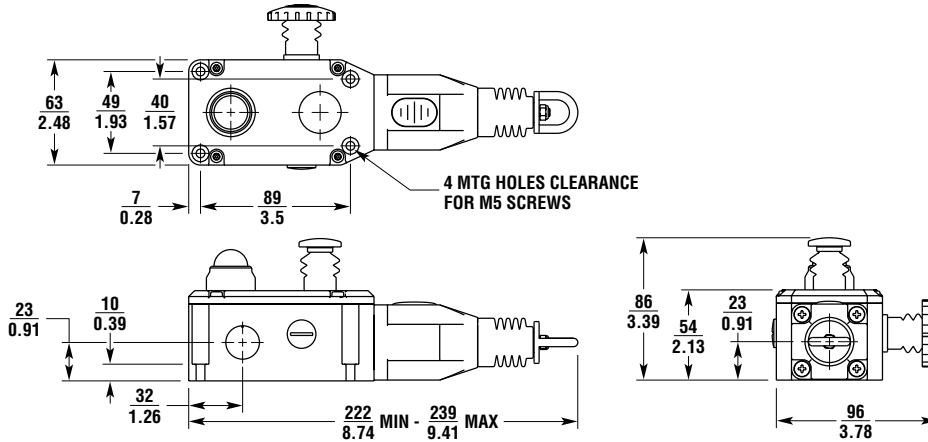


## Dimensions

(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.
ER6022-022MSS	Not included	Not included	2 N/C + 2 N/O	3 x M20	44506-5810
ER6022-022NSS	Not included	Not included	2 N/C + 2 N/O	3 x 1/2 in. NPT	44506-5820
ER6022-031MSS	Not included	Not included	3 N/C + 1 N/O	3 x M20	44506-5830
ER6022-031NSS	Not included	Not included	3 N/C + 1 N/O	3 x 1/2 in. NPT	44506-5840
ER6022-022MESS	Included	Not included	2 N/C + 2 N/O	3 x M20	44506-5850
ER6022-022NESS	Included	Not included	2 N/C + 2 N/O	3 x 1/2 in. NPT	44506-5860
ER6022-031MESS	Included	Not included	3 N/C + 1 N/O	3 x M20	44506-5870
ER6022-031NESS	Included	Not included	3 N/C + 1 N/O	3 x 1/2 in. NPT	44506-5880
ER6022-022MLSS	Not included	Included (24 VDC)	2 N/C + 2 N/O	3 x M20	44506-5910
ER6022-022NLSS	Not included	Included (24 VDC)	2 N/C + 2 N/O	3 x 1/2 in. NPT	44506-5920
ER6022-031MLSS	Not included	Included (24 VDC)	3 N/C + 1 N/O	3 x M20	44506-5930
ER6022-031NLSS	Not included	Included (24 VDC)	3 N/C + 1 N/O	3 x 1/2 in. NPT	44506-5940
ER6022-022MELSS	Included	Included (24 VDC)	2 N/C + 2 N/O	3 x M20	44506-5950
ER6022-022NELSS	Included	Included (24 VDC)	2 N/C + 2 N/O	3 x 1/2 in. NPT	44506-5960
ER6022-031MELSS	Included	Included (24 VDC)	3 N/C + 1 N/O	3 x M20	44506-5970
ER6022-031NELSS	Included	Included (24 VDC)	3 N/C + 1 N/O	3 x 1/2 in. NPT	44506-5980
ER6022-022MESSZ (Extreme Cold Version)	Included	Not included	2 N/C + 2 N/O	3 x M20	44506-5857

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-SLXER6022SS, Replacement Lid for ER6022-SS and XER6022-SS without LED	44506-5730
SM06-SLER6022LSS, Replacement Lid for ER6022-SS with LED 24 VDC	44506-5740
SM06-SLER6022LSSAC, Replacement Lid for ER6022-SS with LED 120 VAC (consult factory for complete switch with 120 VAC beacon)	44506-5741
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-QLSS, Quick Link, Stainless Steel	44506-4772
SM06-TB30, Turnbuckle, Stainless Steel	44506-4730
SM06-TB31, Turnbuckle, Galvanized	44506-4731
SM06-SP30, Spring, Galvanized	44506-2705
SM06-SP50, Spring, Stainless Steel	44506-4750
SM06-RPSS, Rope Pulley, Stainless Steel	44506-4780
SM06-ES60, E-Stop Mechanism	44506-4760
SM06-YLES, Yellow E-Stop Background Label	44506-4791
SM06-LF40, Replacement LED Indicator Beacon, 24 VDC	44506-4740
SM06-LF41, Replacement LED Indicator Beacon, 120 VAC	44506-4741
SC12-M20NPTSS, M20 to NPT Adapter Stainless Steel	44512-0311

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