# ER1022

## **Rope Pull Emergency Stop Switch**

- Rope spans up to 125 m (410 ft.) makes this switch ideal for applications where long rope spans are required
- IP67 (NEMA 6) enclosure enables the ER1022 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 rope 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

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- 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



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 x 10 <sup>6</sup> minimum				
LED Indicator Beacon:	24 VDC or 120 VAC				
Mechanical					
Mounting:	Any position				
Mounting Hardware:	4 x M5 screws				
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				
Stainless Accessory Items:	304 Stainless Steel				
Wiring Entry:	4 x M20 or 3 x 0.5 in. NPT				
Weight:	1100 g (39 oz.)				
Color:	Yellow				
Mechanical Life:	1 x 10 <sup>6</sup> 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.





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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



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**





🗆 Contact Open 🛛 🗖 Contact Closed

## **Mounting Specification**





## Dimensions



Note: The designation of the ER1022 switch as left-sided or right-sided is based upon the mounted position of the switch, in the installation.

## Applications

(mm/in.)

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





## Ordering

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Model	E-Stop	Indicator Beacon	Contacts	Wiring Entry	Part No.
ER1022-042MELL	Included	Included (24 VDC)	4 N/C + 2 N/O	4 x M20	44506-6410
ER1022-042MELLAC	Included	Included (120 VAC)	4 N/C + 2 N/O	4 x M20	44506-6411
ER1022-042NELL	Included	Included (24 VDC)	4 N/C + 2 N/O	4 x 1/2 in. NPT	44506-6420
ER1022-042NELLAC	Included	Included (120 VAC)	4 N/C + 2 N/O	4 x 1/2 in. NPT	44506-6421
ER1022-042MELR	Included	Included (24 VDC)	4 N/C + 2 N/O	4 x M20	44506-6510
ER1022-042MELRAC	Included	Included (120 VAC)	4 N/C + 2 N/O	4 x M20	44506-6511
ER1022-042NELR	Included	Included (24 VDC)	4 N/C + 2 N/O	4 x 1/2 in. NPT	44506-6520
ER1022-042NELRAC	Included	Included (120 VAC)	4 N/C + 2 N/O	4 x 1/2 in. NPT	44506-6521

Accessories					Part No.	Accessories	Part No.
			Tension/			SM06-SL710, Replacement Lid/LED, 24 VDC	44506-6710
Stainless Steel Rope Kits	Quick Link	Eye- bolts	Gripper Assembly	Allen Wrench		SM06-SL710AC, Replacement Lid/LED, 120 VAC	44506-6711
RK5, 5 m Kit	Yes	3	1	1	44506-2705	SM06-TK00, Tensioner Kit (Turnbuckle, 8 Rope Grips, & 4 Thimbles)	44506-0700
RK10, 10 m Kit	Yes	5	1	1	44506-2710	SM06-TG00, Tensioner Gripper, Stainless Steel	44506-4700
RK15, 15 m Kit	Yes	7	1	1	44506-2715	SM06-EB10, Eye Bolt, Stainless Steel, 8 per pack	44506-4710
RK20, 20 m Kit	Yes	9	1	1	44506-2720	SM06-EB20, Eye Bolt, Galvanized	44506-0720
RK30, 30 m Kit	Yes	12	1	1	44506-2730		
RK50, 50 m Kit	Yes	20	1	1	44506-2750	SM06-DL20, Double Loop Clip, Stainless Steel, 4 per pack	44506-4720
RK80, 80 m Kit	No	30	2	2	44506-2780	SM06-DL21, Double Loop Clip, Galvanized, 4 per pack	44506-4721
RK100, 100 m Kit	No	37	2	2	44506-2711	SM06-THSS, Thimble, Stainless Steel, 4 per pack	44506-4770
RK126, 126 m Kit	No	45	2	2	44505-2726	SM06-THGV, Thimble, Galvanized, 4 per pack	44506-4771
Rope Only			2	44303-2720	SM06-TB30, Turnbuckle, Stainless Steel	44506-4730	
				0	44506-3705	SM06-TB31, Turnbuckle, Galvanized	44506-4731
R5M, 5 m Rope Only						SM06-SP30, Spring, Galvanized	44506-0730
R10M, 10 m Rope Only					44506-3710	SM06-SP50, Spring, Stainless Steel	44506-4750
R20M, 20 m Rope Only				44506-3720	SM06-RPSS, Rope Pulley, Stainless Steel	44506-4780	
R30M, 30 m Rope Only				44506-3730	SM06-ES60, E-Stop Mechanism	44506-4760	
R50M, 50 m Rope Only				44506-3750	SM06-SL711, Replacement Lid with LED 24 VDC	44506-7710	
R80M, 80 m Rope Only				44506-3780	SM06-SL711AC, Replacement Lid with LED 120 VAC	44506-7711	
R100M, 100 m Rope Only				44506-3711	Sinou-SETTAC, heplacement Lid with LED 120 VAC	44300-7711	
R126M, 126 m Rope Only				44506-3726			





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