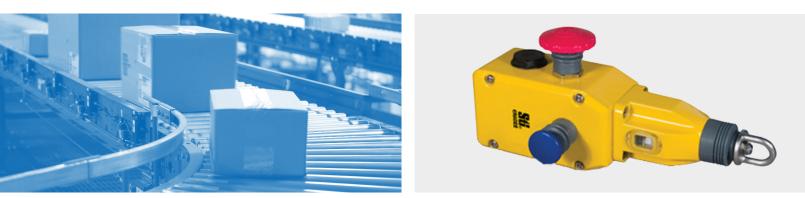


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Rope Switch Product Guide



Overview

For small-to-large machine builders seeking to ensure accessible emergency stops for operators, Omron rope switches offer a costeffective solution that can be installed along or around heavy machinery to ensure safety while providing continuous machine access. The compact, heavy-duty ER5018 Series is ideal for small to mid-size applications, while the ER6022 Series helps reduce the number of switches required for industrial applications and harsh environments. The latter offers two E-stop mounting positions and helps simplify installation and maintenance. See back page for a complete list of options.

Applications

- Small-to-large production lines
- Conveyors
- Rotating machines
- Robotic cells
- Material handling

Primary Benefits

- Give workers easy access to emergency stops, including in outdoor applications
- Simplify setup with a with a tension indicator for correct rope tension
- Reduce troubleshooting and maintenance efforts with an optional status indicator

Key features

- Models with rope span up to 200m
- · Heavy-duty and vibrationtolerant housing
- Left-, right- and centermounted switch available
- The RK Series rope tension kit comes with all required hardware for most installations
- Models with optional E-stop pushbutton and status indicators
- Models available for extreme low temperatures
- Different contact configurations available
- Rubber bellows contain UV inhibitor

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Product Selection

| Part Number | Model | Description | E-Stop | Cable Status Indicator | Contacts | Wiring Entry | Max. Rope Span |
|----------------|-----------------|----------------------------|----------|---------------------------|-----------------------------|-----------------|-----------------|
| 44506-4120 | ER5018-021NE | Compact body | Included | - | - 2N/C+1N/O 3 x 1/2 in. NPT | 40 m / 131 ft. | |
| 44506-4020 | ER5018-021N | | - | - | | | |
| 44506-4040 | ER5018-030N | | - | - | 3 N/C | 3 x M20 | |
| 44506-5220 | ER6022-021NE | Left or right mounting | Included | - | 2N/C+1N/O | 3 x 1/2 in. NPT | 80 m / 262 ft. |
| 44506-5420 | ER6022-021NEL | | | Included (24VDC) | | | |
| 44506-6520 | ER1022-042NELR | Right operation mounting | Included | Included (24VDC) | 4 N/C + 2 N/O | 4 x 1/2 in. NPT | 125 m / 410 ft. |
| 44506-6420 | ER1022-042NELL | Left operation mounting | | | | | |
| 44506-7420 | ER1032-042NEL | Center mounting | Included | Included (24VDC) | 4N/C+2 N/O | 4 x 1/2 in. NPT | 200 m / 656 ft. |
| 44506-7421 | ER1032-042NELAC | | | Included (120VAC) | | | |

Accessories

| Part Number | Short Product Description | Description | | |
|-------------|---------------------------|------------------------------------|--|--|
| 44506-2705 | RK05 | RK Rope Tension Kit, 5 m | | |
| 44506-2710 | RK10 | RK Rope Tension Kit, 10 m | | |
| 44506-2730 | RK30 | RK Rope Tension Kit, 30 m | | |
| 44506-2750 | RK50 | RK Rope Tension Kit, 50 m | | |
| 44506-4700 | SM06-TG00 | Tensioner Gripper, Stainless Steel | | |
| 44506-4780 | SM06-RPSS | Rope Pulley, Stainless Steel | | |
| 44506-4750 | SM06-SP50 | Spring, Stainless Steel | | |
| 44506-0730 | SM06-SP30 | Spring, Galvanized | | |

Related Products These items can be added to complete a safety application for rope switches:

| Part Number | Description |
|---------------------|---|
| G9SE-201 | Monitoring Relay, 24 VDC, Inputs: Dual or single CH, Auto or Manual reset. Outputs: Dual Safety (DPST-NO) and Aux Single (PNP) |
| G9SE-401 | Monitoring Relay, 24 VDC, Inputs: Dual or single CH, Auto or Manual reset. Outputs: Dual Safety (4PST-NO) and Aux Single (PNP) |
| G9SP-N10S | Controller, 24 VDC, Inputs: 10 Safety Outputs: 4 safety outputs (Solid State), 4 Test |
| G9SP-N20S | Controller, 24 VDC, Inputs: 20 Safety Outputs: 8 safety outputs (Solid State), 6 Test |
| G7SA-3A1B DC24 | Safety Relay, 24VDC Coil, 6A, 4-pole: 3PST-NOand SPST-NC |
| P7SA-10F-ND-PU DC24 | Socket, DIN Rail mount, With LED indicator, Push-in Plus (For 4 pole relays) |
| A22NE-M-P202-N | E-Stop, 22E Series, 24V |
| A22Z-3466-1 | 60-dia. round plate with black letters on a yellow background |
| A22NE-M-P202-N-B | Switch with integrated control box, 2 NC |

