Emergency Stop Devices Overview

Emergency Stops and Rope Pull Switches

Essential requirements for emergency stop devices

The specific requirements for an emergency-stop pushbutton to be compliant are as follows:

- It must have a direct opening operation.

- It must be self-latching, meaning that it can only be reset manually.

- It must be colored red and mounted upon a bright yellow background. The yellow background must be a minimum of 3 mm beyond the mounting collar and visible beyond the control actuator, according to ANSI B65.1-2005.

- It must have a mushroom-head shape to make it easy to push.

- It must remain unguarded.

- It must be located at each operator control station and at any other location where an emergency stop would be required.
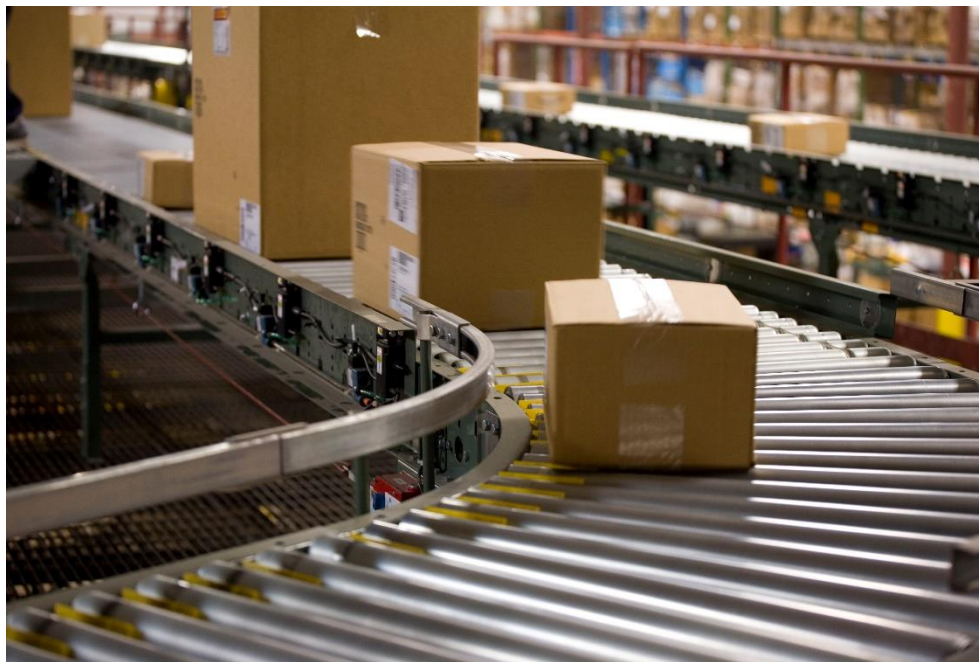
https://automation.omron.com/en/us/blog/e-stop-behavior-requirements

Emergency Stop Devices

Emergency Stops and Rope Pull Switches, IP67 and IP69K

Ideal for Automotive, Machine Tool, Material Handling and F&C

Rope Pull Switches

E-stop on top of switch makes it easier to see and use

Reset button

Robust bellows for better sealing

Sti® ER1032

Cable tension indicator windows make set-up easy

Dual indicator beacon can be wired to flash red when the switch is tripped or glow a constant green when the switch is properly reset
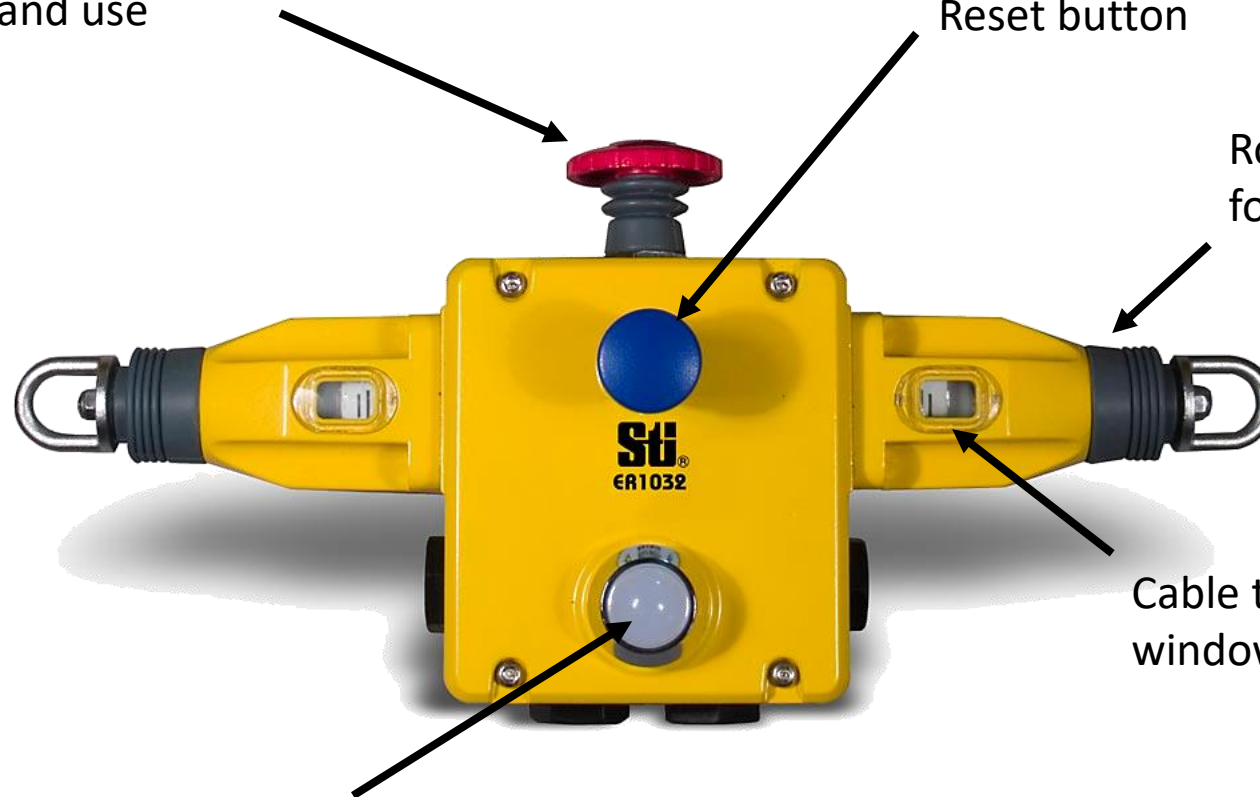
Rope Pull Switches

ER5018

- Rope span 40m
- Tension indicator
- Optional E-Stop
- Reset button
- Compact housing
- 2 NC + 1 NO or 3 NC
- IP67

ER1032

- Rope span 200m
- Beam and Tension indicator
- Integrated E-Stop
- Reset button
- 4 NC and 2 NO aux. contact
- IP67

ER6022

- Rope span 80m
- Tension indicator
- Beam indicator
- Optional E-Stop with two possible mounting positions Possible contact arrangements: 2 N/C + 1 NO, 3 NC + 1 NO or 2 NC + 2 NO

ER6022-SS

- Rope span 100m
- 316 stainless steel cast housing and stainless steel hardware
- Extreme Cold Version—for applications down to -40°C
- 3 NC + 1 NO or 2 NC + 2 NO

Click on picture to link to datasheet

Standard E-Stop
A22E Series

A22NE-P
Vibration
Resistant

A22NE-PD
Max Safety
and Protection

Emergency Stop Pushbutton switches

A22 series offers a robust and reliable Emergency Stop switch even in the most challenging and harsh environment

- Minimize Emergency Stop malfunctions with lock detection, to detect improper installations and damage to the lock lever

- Reduce loose and detached wiring with push-in plus terminal blocks by providing great vibration resistance and reducing maintenance

- Optional IP69K, ideal for harsh environments, usable up to 80°C and pressures of 80 to 100BAR, making it ideal for wash-down applications

Emergency Stop Pushbutton switches

A22E

- Screw terminal block types
- Install in 22-dia. or 25-dia. Panel Cutout
- Removal contact blocks provide an easy way of assembling the emergency stop push button
- Oil-resistant to IP65 (non-lighted models) / IP65 (lighted models)

A22NE-P

- Push-in plus terminals
- Vibration Resistant
- Maximum of up to six contact points can be combined
- Oil-resistant to IP65 (non-lighted models) / IP65 (lighted models) and IP69K

A22NE-PD

- Push-in plus terminals
- Lock detection
- Vibration resistant
- Install in 22-dia. or 25-dia. Panel Cutout
- Oil-resistant to IP65 (non-lighted models) / IP65 (lighted models) / IP69K

Click on picture to link to datasheet

We make machine safety easier

Easy-to use

Cost-effective

Easy-to maintain

OMRON INTEGRATED | INTELLIGENT | INTERACTIVE

thank
you