

REPLACEMENT & AFTERMARKET

PULL CORD E-STOPS



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PULL CORD E-STOPS



Pull Cord E-Stops

Industrial conveyor operations spanning extended distances present distinct hazards when emergency shutoff relies on fixed-location pushbuttons. Material jam-clearing areas and continuous work zones demand immediate stop capabilities from any position along the belt line. Delayed power interruption during an entanglement or equipment fault compounds physical risk to personnel and escalates regulatory non-compliance exposure.

Pull cord emergency stop systems utilize a steel wire rope routed parallel to the conveyor structure to maintain a continuous activation zone. Mechanical trip mechanisms break the safety contact immediately upon cable deflection or separation. The heavy-duty die-cast aluminum or stainless steel enclosures integrate directly into hardwired safety relay circuits for multi-zone fault annunciation. These switches establish comprehensive shutdown coverage across long material handling runs, multi-level platforms, and bilateral access conveyors.

APPLICATIONS



Recycling Sort Stations

Manual waste processing lines distribute personnel across multiple sorting stations along the belt. The continuous activation zone enables immediate conveyor shutdown capability directly within these distributed work zones.



Long Conveyor Runs

Extended material transport spans create distances between fixed control stations that delay emergency response. Continuous wire rope runs parallel to the belt line to provide immediate power interruption access from any point.



Material Jam-Clearing Areas

High-volume transfer points frequently require operator intervention to clear obstructions near moving components. The system provides immediate stop capability anywhere along the belt without requiring workers to retreat to a fixed panel.



Bilateral Access Conveyors

Conveyor sections accessible from both sides present dual-sided operational hazards during maintenance or normal running states. Dual-head switch options allow independent wire rope operation for conveyors accessible from both sides.

KEY FEATURES

01

Galvanized Steel Wire Rope:

Routes parallel to the belt at 2–4 inches from the conveyor edge, providing continuous activation access across cable spans up to 300 feet per switch.

02

Mechanical Trip Mechanism:

Breaks the safety contact and stops the conveyor when the cable is pulled or cut, maintaining the open-circuit state until deliberate manual intervention occurs.

03

Die-Cast Aluminum Enclosure:

Houses the internal contact blocks and trip mechanism within an IP65/NEMA 4 rated structure to protect against dust and water ingress in industrial environments.

04

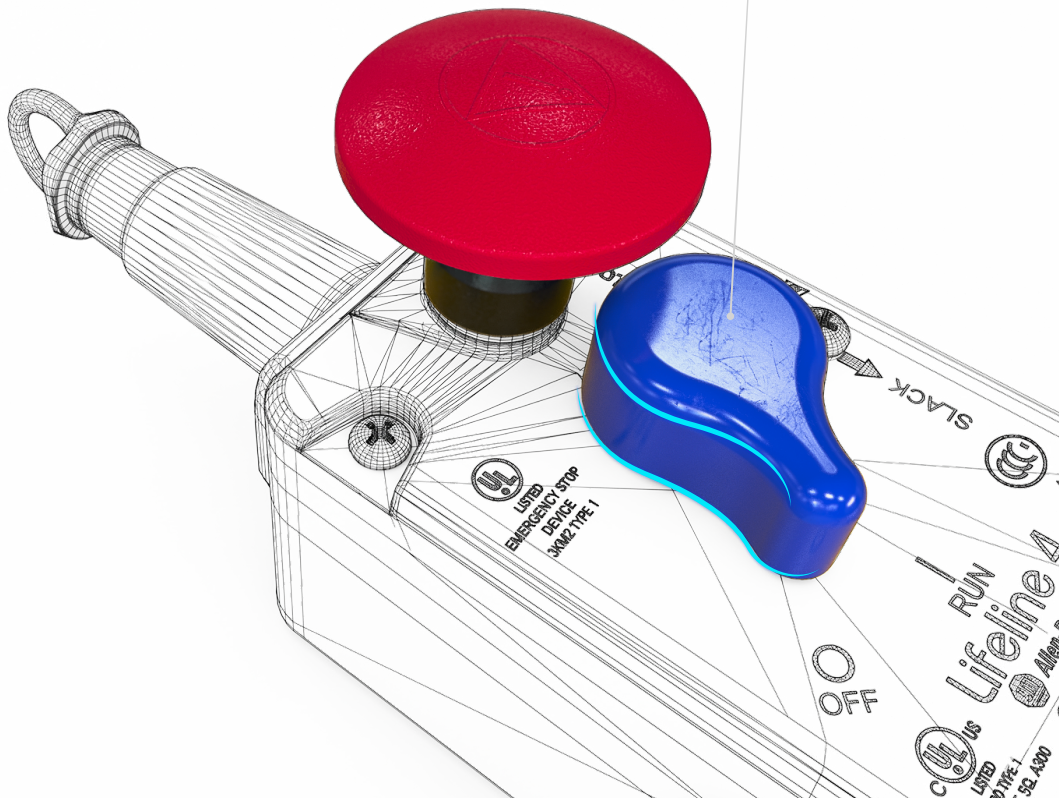
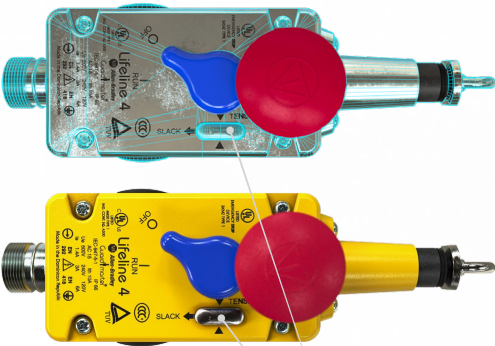
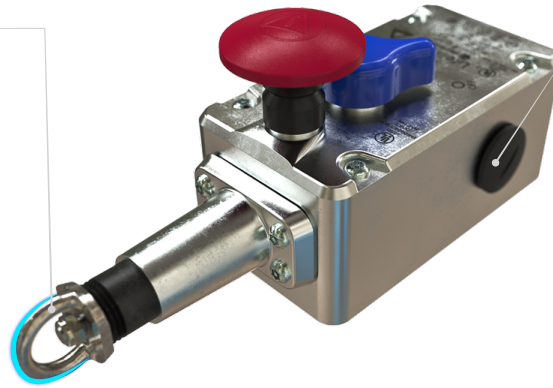
Manual Reset Lever:

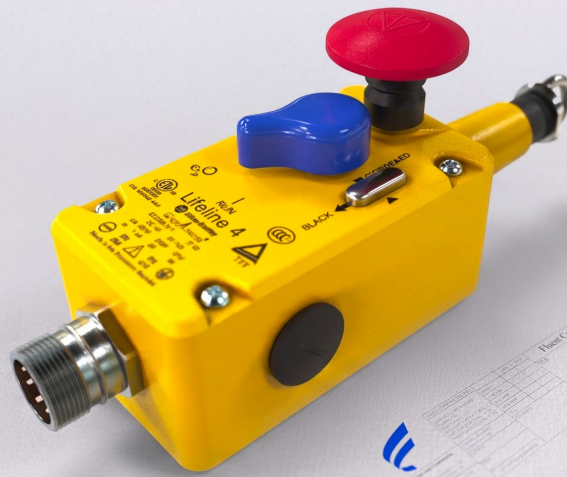
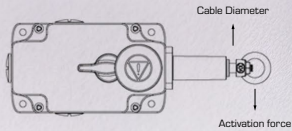
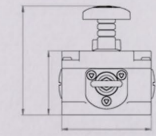
Requires intentional human action at the activated switch location to disengage the emergency stop condition before equipment restart commands can be initiated.

05

Visual Tension Indicator:

Utilizes housing alignment markers to provide direct verification of wire rope tension, ensuring the cable is maintained at the 15–25 lb specification to prevent nuisance trips or slack faults.





PULL CORD E-STOPS SPECIFICATIONS

Parameter	Specification
Cable material	Galvanized steel wire rope
Cable diameter	3/16-1/4 inch typical
Maximum cable length	Up to 300 feet per switch
Activation force	10-15 lb pull force
Switch housing	Die-cast aluminum or stainless steel
Protection rating	NEMA-rated enclosures matched to operating conditions
Operating temperature	-40°F to 185°F
Contact configuration	1NC standard, multiple auxiliary contacts available
Reset mechanism	Manual reset lever
Slack detection	Optional taut-wire monitoring

COMPLIANCE STANDARDS

Mushroom head E-stops must meet the following regulatory and industry standards for placement, actuation, and electrical configuration.

OSHA 1910.212 and 1910.147

Federal workplace directive mandating integrated emergency stop mechanisms, operational lockout/tagout procedures, and documented maintenance records.

ISO 13850

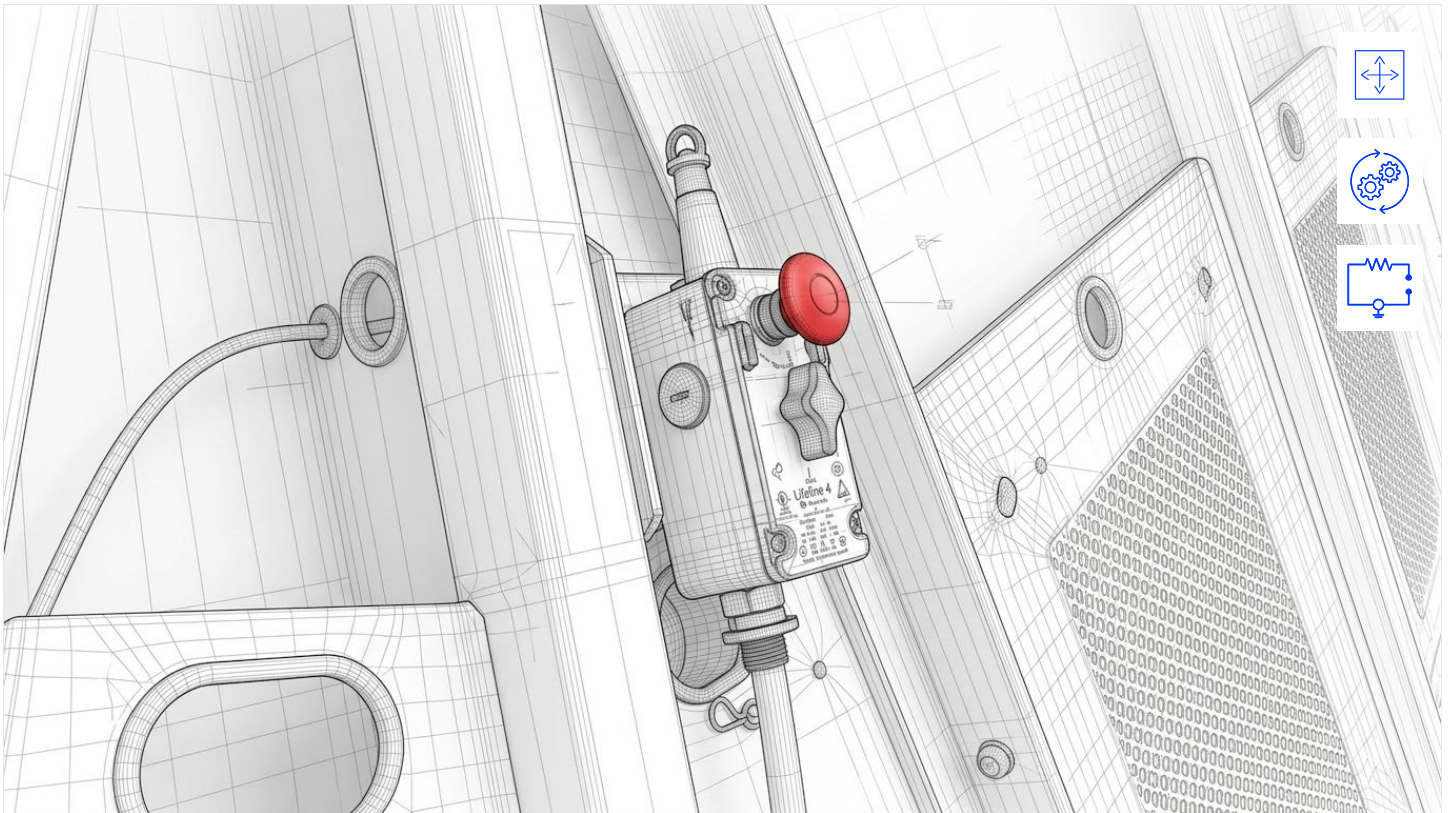
International function standard requiring Performance Level PLc or SIL 1 ratings, Stop Category 0 or 1 execution, and intentional manual reset actions prior to system restart commands.

ASME B20.1

Primary US conveyor standard establishing 100-foot maximum spacing intervals, 24-67 inch dimensional mounting heights, and 4-5 pound mechanical actuation force requirements.

CEMA Standards

Industry equipment benchmark dictating specific red-on-yellow hardware visibility, physical actuator protrusion, and absolute operational control override priority.



THE ENGINEERING ADVANTAGE

This section outlines the mechanical and electrical architecture behind pull cord E-stops, covering physical trip assemblies and circuit integration methodology to ensure exact operational fit and service life continuity.

Positive Shut-Off Architecture:

Mechanically trips the internal mechanism to break the safety contact immediately upon cable disruption, halting conveyor motion in extreme conditions.



Independent Changeover Contacts:

Provides separate internal electrical pathways dedicated to control and signaling functions, integrating seamlessly with programmable logic controllers and central annunciator panels.



Safety Relay Circuit Integration:

Drops power directly to the motor contactors when any unit in the chain is activated, overriding variable frequency drive commands to de-energize equipment.

Multi-Zone Interlocking Configuration:

Wires auxiliary contacts from multiple distributed switches in series, enabling one pulled wire to signal upstream equipment and halt material flow into stopped sections.

CONTACT INFORMATION

OUR ENGINEERS WILL SPEC THE EXACT PART FOR YOUR SYSTEM

For product specifications, engineering support, or order inquiries, please contact our team using the information provided below. Our specialists are available to ensure accurate recommendations and efficient service for your application requirements.

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