kiepe.INDUSTRY

EMERGENCY STOP SWITCH

LRS 422

 # 93.046 690.422



- Robust Stainless-Steel Housing
- Single-Side Pull Rope Installation up to 1x75m
- Adjustment Display
- Integrated Slack-Line Detection
- Safety Device according to Machine Directive

Function

The Kiepe LRS 422 is a compact pull rope emergency stop switch with integrated slack-line detection and latching. With one movement, an emergency stop signal can be triggered by pulling or relaxing the pull rope over a distance up to 75m. An adjustment display in the cover makes it easy to check the operating position. In this position, the switch can be reset via the reset lever.

Special Features

The LRS 422 offers excellent corrosion resistance thanks to its AISI 316 stainless steel housing. In addition, the material is robust against stone impact. With its special sealing, it is protected against finest dust and steam jet cleaning, and functions without problem in temporary flooding. It is additionally certified according to UL and UKCA.

Equipment

Equipped with two positive opening safety contacts and two auxiliary contacts, the LRS 422 is used in safety control circuits in accordance with the Machinery Directive. The Kiepe device is equipped with an adjustment display, the enclosure contains three thread holes for more flexibility in cable installation. Additionally, high-quality, precision-fit components for ripcord installation can be ordered from Kiepe.

Application area

The emergency stop device has been developed for installation in electrical safety circuits in stationary belt conveyors for bulk material. Due to its stainless-steel housing and the particularly high level of sealing against water and dust, it is used not only in seaports, but also in the fertilizer industry, salt extraction, dairies and feed production. Depending on the temperature variation in the area of application, it can protect distances of up to 75 m.



Product Data

Classification	Pull Rope Emergency Stop Device with Manual Reset and Latching with integrated Slack-line and Wire-Break Detection, Safety Device
Safety Functions	Emergency Stop Slack-Line, Wire-Break-Detection
Safety Classification DIN EN ISO 13849-1 DIN EN IEC 62061	Depending on System Architecture* up to PLd up to SIL3
Standards	EN ISO 13850, EN ISO 13849-1, EN (IEC) 60947-5-5, EN IEC 63000
Certificates	CE, EAC, cULus, UKCA
Pull Rope Installation Length (with Spring XL Nr. 580.00.50.01.01)	Depending on Temperature Variation
Temperature Variation **40°C**	20 m
Temperature Variation **25°C**	30 m
Temperature Variation **17°C**	45 m
Enclosure Material	Stainless-Steel (AISi 316)
Enclosure Protection	IP 66, IP 67, IP 69
Ambient Temperature Range	-25° C ... +70° C
Enclosure Fixation	4 x M5
Cable Entries	3 x M20 x 1.5 mm
Weight	1.4 kg (3.1 lb)

Contact System	Snap action switch
Contact Principle	Positive break EN 60947-5-1 K
Contact Material	Silver (Ag)
Contact Terminals	Screw
Connecting Capacity	max. 2.5 mm^2
Utilisation Category AC-15	AC 240 V / 3 A (A600) AC 120 V / 6 A (A600)
Utilisation Category DC-13	DC 24 V / 2 A
Conventional Thermal Current I_{th}	10 A
Rated Insulation Voltage U_i	600 V
Rated Impulse Withstand Voltage U_{imp}	6 kV
Overvoltage Category / Altitude	II / 2000m
Pollution Degree	3
Conditional Short-Circuit Current I_q	1000 A
Short Circuit Protection Device	6 A gG
B10d service life value DC-13: 24 V / 1 A	> 100.000 Operations*

* As per DIN EN ISO 13849-1, the likelihood of faults increases if pull-rope emergency stop switches are connected in series. This could reduce the area of Performance Level (PL) application.

Scope of Delivery

2x Stainless AISI 316 Screw Plugs (with O-Ring),
1x Protection Dummy Plug

Variants

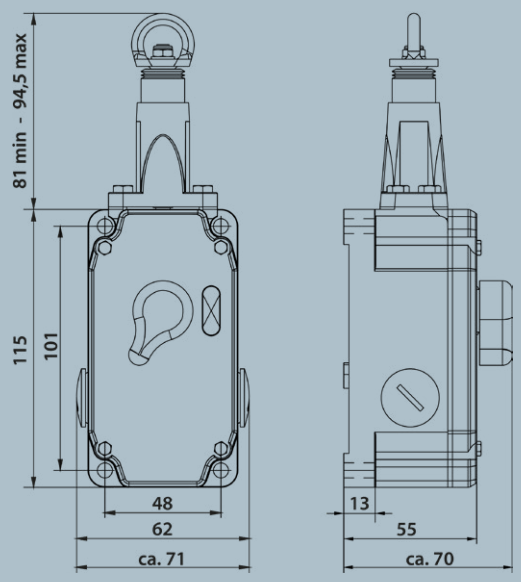
Type	Order-No	Contacts NC | NO	E-Stop Button
LRS 422	93.046 690.422	2 | 2	NO

Adjustment Display



The setting display is located inside the LRS 422 and is protected by the cover. It is visible through a small viewing window on the outside of the housing and is used for trouble-free installation and checking of the correct ripcord pretension and operating position.

Dimensions



Doc-No.: DB0466904221911 AA 04_12/24

Technical changes and errors reserved. Figures similar.

Kiepe Electric GmbH - Industry
Kiepe-Platz 1
40599 Düsseldorf, Germany
Tel.: +49 211 74 97 -0
E-Mail: info@kiepe-elektrik.com
Web: www. kiepe-elektrik.com