



## APPLICATION

Kiepe Pull Rope Switches provide a switching system to isolate the power to conveyor systems and other process equipment in event of an emergency.

The devices have been designed for a maximum of safe operation under severe conditions.

Kiepe Pull Rope Switches and accessories meet the requirements of international safety standards with respect to personnel safety and equipment.

The Kiepe Pull Rope Switches HENEX are approved for use in areas with combustible dusts acc. to EN 50281-1-1, part 1-1: Electrical apparatus protected by enclosures.

The switches are marked with  II 2D IP 65 T 85 °C and can be used in zones 21 and 22, equipment group II, categories 2 and 3.

The device is intended for use in stationary installations and in vehicles.

## OPERATION

Kiepe Pull Rope Switches are actuated by a plastic coated steel wire rope placed along-side the conveyor. Pulling on the rope at any point will trip and automatically lock the switches, de-energizing the conveyor starter contactor. Each switch is bi-directional in operation and has two ropes fitted to it from opposite directions terminating with a spring at the anchor points.

The springs will operate the switch in the event of rope breakage. The length of rope in either direction may be up to 50 meters.

After tripping, the mechanical latch can be released only on the switch itself by the reset lever. Pulling the rope operates the actuating lever, which trips the internal cam into the OFF position. As the actuating lever is now uncoupled, it is impossible for a subsequent switching operation to occur, even if considerable force is used.

Resetting can only be achieved by means of the reset lever, which at the same time provides ON-OFF-indication.

## TECHNICAL DATA

In Compliance with the following Standards and Regulations	EN 50281-1-1, Part 1-1, Ex II 2D EN 60947-5-1, EN 60947-5-5, EN 0418 VDE 0110 - Degree of Pollution 3, UVV-VBG 10
Suitable for	Controls and equipment according to EN 60204
Enclosure	Aluminium GK-AlSi 12
Finish	2-component DD-tile enamel; Enclosure: yellow, RAL 1004; Actuating lever: red, RAL 3000; Reset lever: blue, RAL 5010
Mounting	2 long holes for M8 screws
Permissible Ambient Temperature (VDE 0660)	$-25\text{ °C} \leq T_{\text{amb}} \leq +75\text{ °C}$
Maximum Operating Temperature of Enclosure	85 °C
IP Protection Class	IP 65 according to EN 60529
Switching System	Cam switch, maximum 6 forced switch elements
Rated Insulation Voltage $U_i$	380 VAC, 440 VDC
Rated Operating Voltage $U_e$	240 VAC, 250 VDC
Conventional Thermal Current $I_{th}$	16 A
Short Circuit Capacity	
AC-13	$U_e = 240\text{ VAC}, I_e = 10\text{ A}$
DC-13	$U_e = 24\text{ V}, I_e = 2.1\text{ A}$ $U_e = 60\text{ V}, I_e = 0.9\text{ A}$
Contact Service Life	$0.5 \cdot 10^6$ Switching operations at 100 % $I_e$
Mechanical Operating Life	$> 10^5$ Switching cycles
Cable Entry	Tapped hole for 2 x M25 x 1.5
1 x cable gland M25 x 1.5; sealing area $\varnothing 11.5\text{ mm}$ to $\varnothing 15.5\text{ mm}$ ; 1 x plug M25 x 1.5	
Connections	Maximum 2.5 mm <sup>2</sup>
Equipotential Bonding Connection	Connectable conductors: 4 mm <sup>2</sup> finely-stranded, 6 mm <sup>2</sup> monofilar
Earth	Inside the housing M4
Order Number	91.058 642.001

## ACCESSORIES

	Order Number
Pull-wire red, flexible steel wire, plastic coated, $\varnothing$ 3 mm (supplied in coils of 50, 100 or 500 m)	94.045 731.001
Tension spring, stainless steel 170 mm x $\varnothing$ 20 mm	94.000 026.681
Turnbuckle (metal, 1 hook, 1 eye)	215.22.80.02.01
Egg-form rope clamp for pull-wire of $\varnothing$ 3 mm	94.047 869.001
Eyebolt	
M 12 x 60	94.045 727.001
M 12 x 200	94.045 727.002
Anchor hook M 10	94.045 728.001

Use only cable glands and plugs recommended by the manufacturer and supplied with the switch. These cable glands and plugs are designed acc. to EU design sample test certification.

The use of other cable glands and plugs may lead to a void device type approval.

Cable gland	113.52.01.20.01
Plug	113.52.87.20.01

## DIMENSIONS



