

# **Belt Conveyor Pull Rope Switch**

## **HENEX**

# ATEX ( II 2D Ex tD A21 IP 65 T 85 °C

Leaflet No. Kiepe 508



#### **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 (BGI 710).

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 
Il 2D ExtD A21 IP 65 T 85 °C and can be used in zones 21 and 22, equipment group II, categories 2 and 3.

#### **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 ISO 13850 VDE 0110 - degree of pollution 3, BGI 710
Suitable for	controls and equipment according to EN 60204
Enclosure	Aluminium GK-AISi 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)	$-25$ °C $\leq$ T <sub>amb</sub> $\leq$ + 75 °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 <sub>i</sub>	380 VAC, 440 VDC
Rated operating voltage U <sub>e</sub>	240 VAC, 250 VDC
Conventional thermal current I <sub>th</sub>	16 A
Short circuit capacity AC-15 DC-13	$U_e = 230 \text{ VAC}, I_e = 6 \text{ A}$ $U_e = 24 \text{ V}, I_e = 2.1 \text{ A}$ $U_e = 60 \text{ V}, I_e = 0.9 \text{ A}$
Contact service life	0.5 • 106 switching operations at 100 % I <sub>e</sub>
Mechanical operating life	> 10 <sup>5</sup> switching cycles
Cable entry	Tapped hole for 2 x M 25 x 1.5
1 x cable gland M25 x 1.5; sealing area $\varnothing$ 11.5 mm to $\varnothing$ 15.5 mm; 1 x plug M25 x 1.5	
Connections	Maximum 2.5 mm <sup>2</sup>
Equipotential bonding connection	Connectable conductors: 4 mm² finely-stranded, 6 mm² monofilar
Earth	Inside the housing M 4

#### **SELECTION TABLE**

Туре	Cont configu NC		Order number
HENEX 001	1	1	91.058 642.001
HENEX 002	2	2	91.058 642.002

### ACCESSORIES

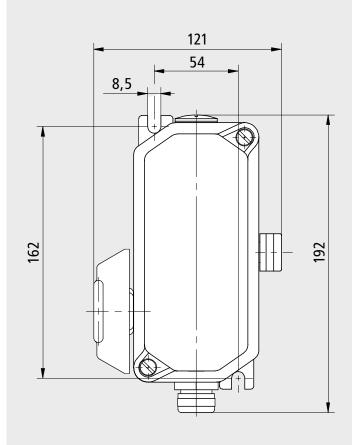
	Order Number
Pull-wire red, flexible steel wire, plastic coated, $\varnothing$ 3 mm	
coils of 50m	94.045 731.011
coils of 100m	94.045 731.021
coils of 500m	94.045 731.031
Tension spring, stainless steel	
170 mm x Ø 20 mm	94.000 026.681
Turnbuckle	
(metal, 1 hook, 1 eye)	215.22.80.02.01
Rope clamp, egg-formed	
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
Swing hook M 10	94.045 728.001
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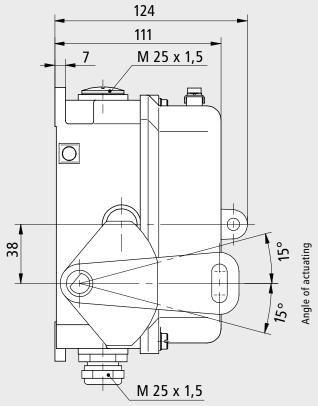
Use only cable glands and plugs recommended by the manufacturer and supplied with the switch. These cable glands and plugs are designed acc. to EU design sample test certification.

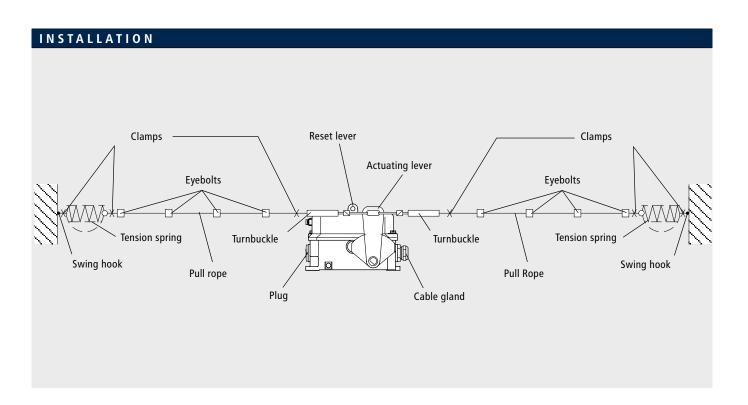
The use of other cable glands and plugs may lead to a void device type approval.

Cable gland	113.52.01.20.01
Plug	113.52.87.20.01

### DIMENSIONS







#### CERTIFICATES



(1) NOTIFICATION DE L'EVALUATION RELATIVEA
LA QUALITY DE PRODUCTION

(2) Equippement ou système de protection ou composant destine
Directive MARICE

(3) Numérie de notification LCIE 03 ATEX Q 8081

(4) Equippement ou système de protection ou composant tel
qu'indiqué:
Interrupteurs de secours

(5) Demandeur :

VOSSLOH KIEPE GMBH
Kiepe-Platz 1
D - 40509 Dossedorf

(6) Fabricant :

VOSSLOH KIEPE GMBH
Kiepe-Platz 1
D - 40509 Dossedorf

(7) Le LCIE; organisme notifiée sous la référence 0081 pour
fancesent V conformément à l'article 8 de la directive 14/4/CL
au demandeur que le fabricant a un système d'assurance
qualité de production qui satisfait à l'annexe IV de la directive
(8) Le système d'assurance qualité de production qui satisfait à l'annexe IV de la directive
(9) Cate notification value le paper de protection ou le composant
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Subject to change without notice.