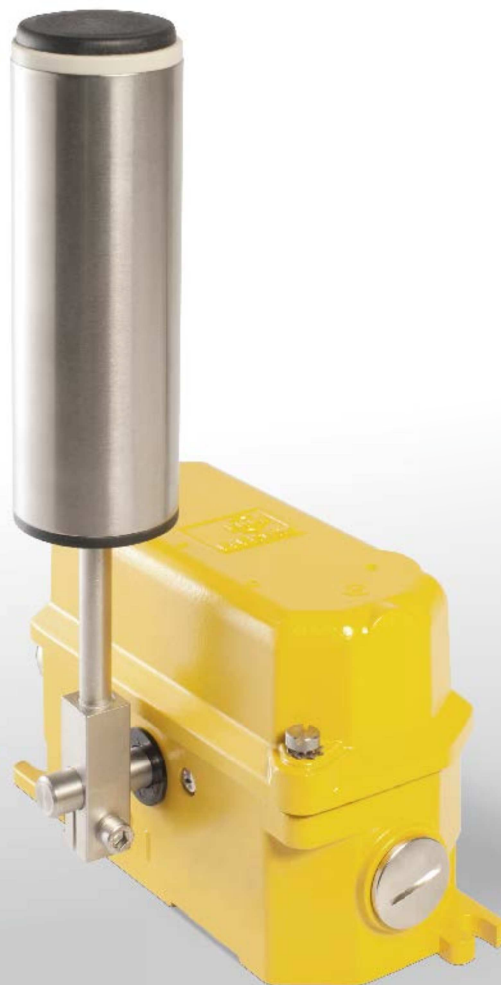




# Détecteur de déport de bande conveyor Belt misalignment switch

**HES**



## APPLICATION

KIEPE belt misalignment switches of type HES are designed for heavy duty application and used at fixed belt conveyors according to DIN EN 620 requirements in order to keep the risk of unintentional operation as low as possible. The lateral movement of the conveyor belt is monitored and by switching off the conveyor in the case of unacceptable belt drift, the belt monitoring prevents damage and destruction of the belt and the machine.

Note: The misalignment switch may only be used in control circuits.

## FUNCTION

Inadmissible belt drift occurs when the belt edge approaches the end of the supporting rollers through lateral movement and passes it. Then the actuator (roller lever) is operated and displaced. In the case of displacement of the actuator, the switches are activated.

The Kiepe type HES misalignment switch complies with the Low Voltage Directive 2006/95/EC. It features a robust aluminum housing and is equipped with 2 force-actuated changeover contacts with snap-action function with two adjustable switching points. The switching angle can be set via an adjustable camshaft. In this way, a pre-warning can be implemented in addition to the safety shutdown. As soon as the belt moves correctly, the roller lever will automatically return to its home position.

## TECHNICAL DATA

Designation	Misalignment Switch Type HES
Type of actuation	Bidirectional
Complies with	DIN EN 60204-1 DIN EN 60947-5-1 EN 620
Suited for	Control units and systems in accordance with DIN EN 60204
<b>Mechanics</b>	
Enclosure	Aluminum GK-AISI 12
Finish	DD-paint yellow, RAL 1004
Actuating lever	Stainless steel $\varnothing$ 50.5 mm, ball-bearing roller
Mounting	2 slotted holes for M8-screws
Installation position	Horizontal, tilt angle up to about 30°
Deflection of roller lever	Maximum +/-75°
Mechanical reliability	> 10,000 actuations
Weight	2.2 kg
<b>Electrical system</b>	
Switching system	2 changeover contacts (SPDT with snap action); cam operated positive-making switches; gold plated
Switching range	5°...15° and 15°...35°, adjustable, factory set at 10 degrees each
Cable entry	Threaded holes 2x M25x1,5 with each 1x screwed cable gland: sealing area $\varnothing$ 11 mm to $\varnothing$ 16 mm; 1x dummy screw
Utilization category	AC-15: 230 V; 1.5 A DC-13: 60 V; 0.5 A DC-13: 24 V; 2 A
Connection cross section	1 mm <sup>2</sup> to 2,5 mm <sup>2</sup>
Protective conductor connection	in the casing; M4; Class I: protective earthing
Rated insulation voltage $U_i$	250 V
Rated impulse withstand voltage $U_{imp}$	2.5 kV; degree of pollution III
Conventional thermal current $I_n$	6 A
Contact reliability	30,000 operations with 100% I
<b>Ambient conditions</b>	
Permissible ambient temperature	- 25°C... +70°C
Extended ambient temperature	- 40°C... +70°C (type HES 7xx)
Protection rating	IP65 / IP67 in accordance with EN 60529

## SELECTION TABLE

Type	Contact configuration SPDT	Extended temperature range - 40 °C ...+70 °C	Ventilation membran	Order number
HES 011	2			92.057 020.011
HES 017	2		x	92.057 020.017
HES 711	2	x		92.057 020.711

### Equipment options:

Devices for two-wire bus-system

### Spare parts and accessories:

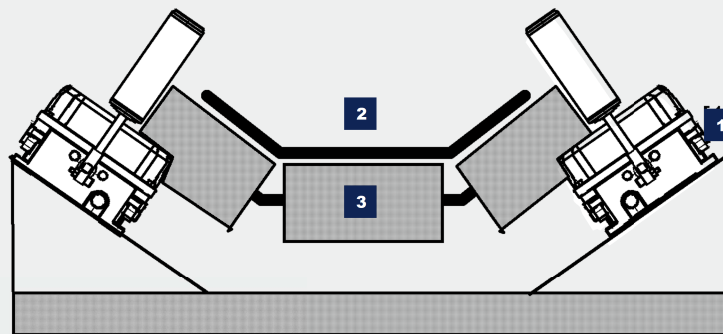
Cable gland M25x1,5; sealing area $\varnothing 11\text{mm}$ to $\varnothing 16\text{mm}$	113.52.02.20.01
Screw plug; M25 x 1,5	113.52.87.20.02
Cover HES	93.066 839.004
Roller lever, stainless steel, 50,5 mm	93.055 201.101

## MOuNTINg

Type HES **1** misalignment switches are fastened in installation. The roller lever can be replaced and can be fixed freely in position on a substructure with 2 M8 screws each. In the case of directions of rotation on the switch axis. In the case of misalignment, the belt **2** must not leave the lateral guide rollers.

The position of the misalignment switches shall be chosen such that the electrical connection is made directly at the screw terminal of the delivery. A second cable gland is possible when the misalignment switch is not touched during normal operation. The actuation roller of the switching elements in the housing via the cable gland, include alignment switch preferably perpendicularly. The actuation roller of the delivery. A second cable gland is possible when replace the misalignment switch is not touched during normal operation. screw plug on the opposite site.

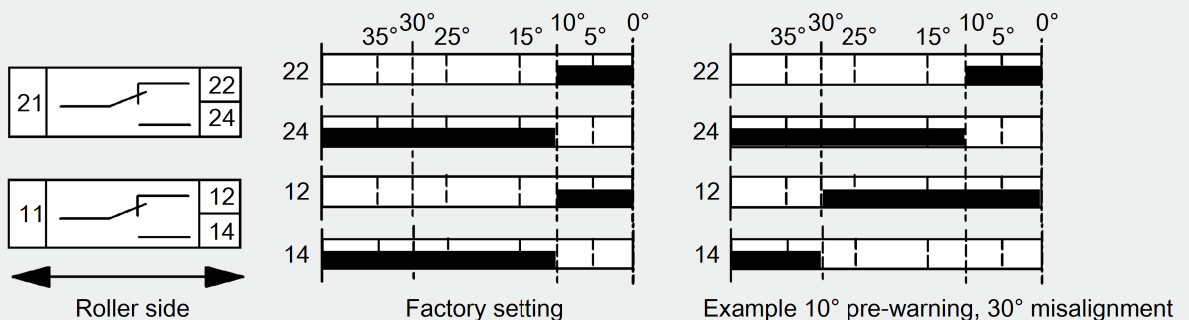
## MOuNTINg DIAGrAM



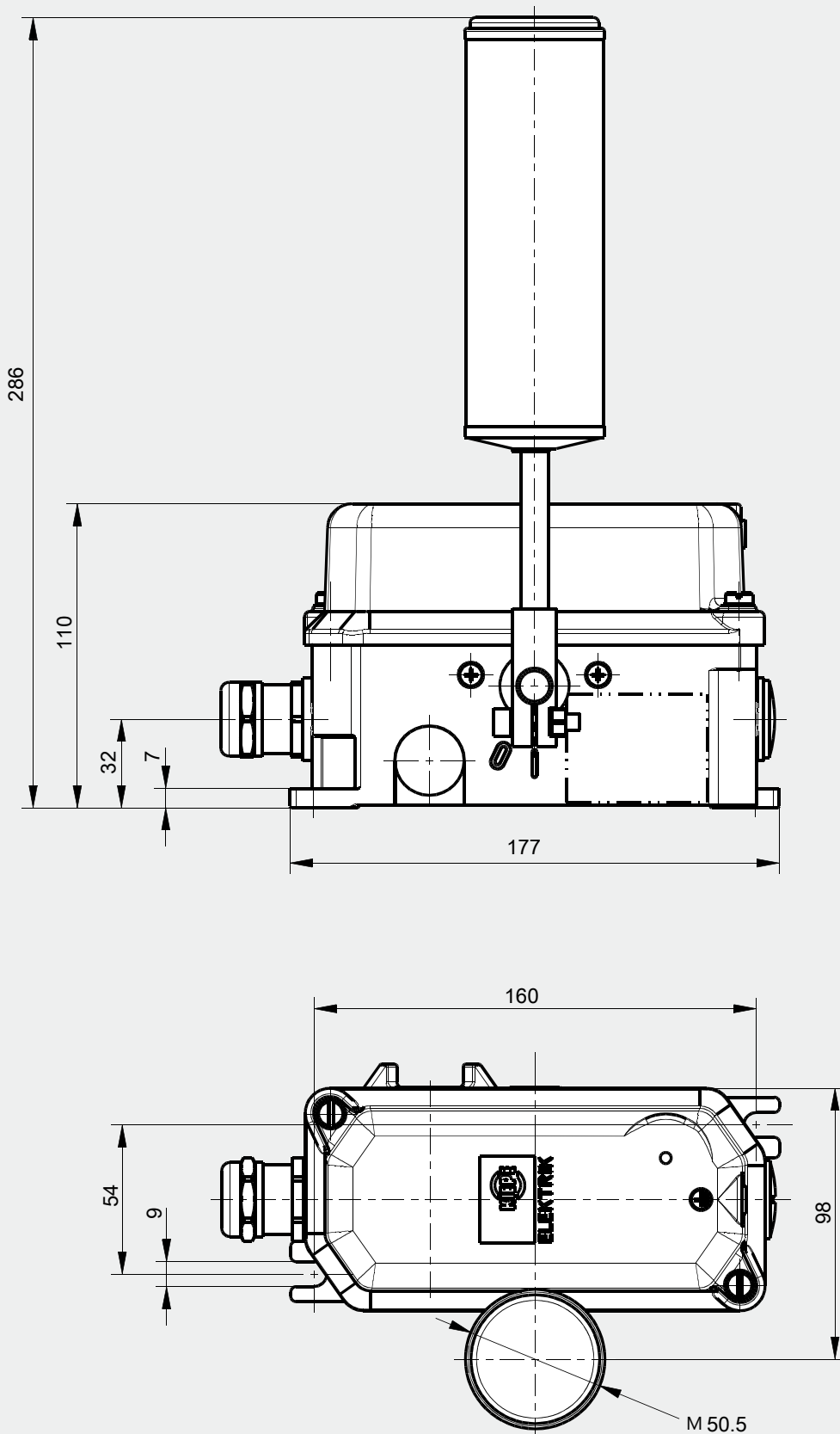
Sketch of conveyor with support rollers and belt

- 1** Misalignment Switch
- 2** Belt
- 3** Support roller

## CONNECTION DrAWINg



## DIMENSIONS



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