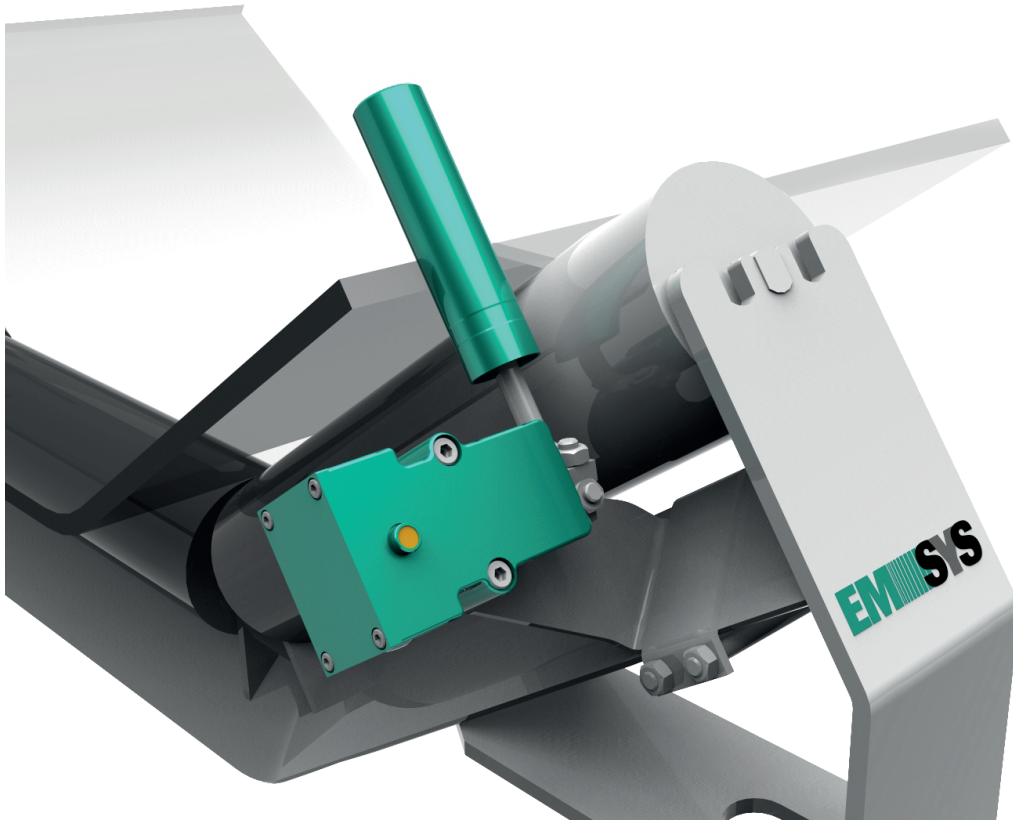


MT

Misalignment Transducer



Advantages

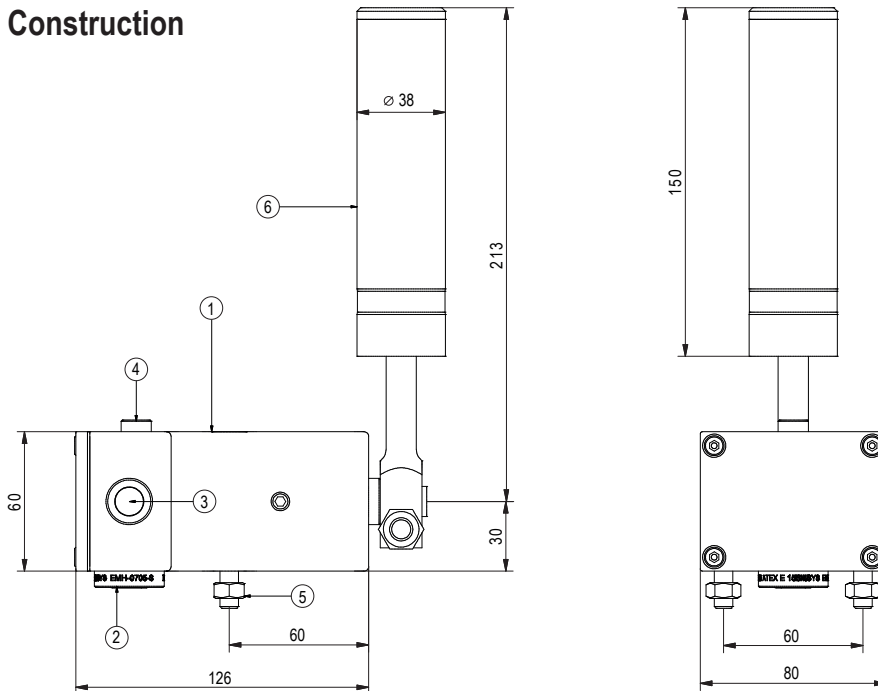
compact design • maintenance-free • continuous measurement of belt-position • applicable for extreme conditions
simple integration into plant- and process automation systems • convenient installation

Description

The Misalignment Transducer MT is a compact and rugged measuring device to determine the misalignment of conveyor belts. The MT was designed for harsh conditions in the mining

and other industrial sectors. The rugged design, easy integration into existing belt conveyors and simple installation combined with the maintenance free operation characterizes the MT.

Construction



- ① Tuning angle transmitter (DRS-0*10-**)
 - ② Electrical connection
 - ③ Bridging switch
 - ④ LED
 - ⑤ Touch roller

Function

The misalignment transducer MT consists of the tuning angle transmitter DRS and the touch roller. The tuning angle transmitter is compounded by its housing, the inboard rotary element, the evaluation electronic and the return spring. The output of the evaluation electronic is an opto-decoupled signal of 5 Hz to 15 Hz according to the measured angle in the range of 0° to 130°.

For the continuous tracking of the belt position the touch roll shall permanently be in contact with the belt edge which is realized by the return spring.

If an application requires the polling of a specific angle the DRS is also available with a contact output.

Technical data DRS

Electrical characteristics

- Input voltage. 12 V DC
- Power consumption. ≤ 20 mA
- Output signal
(Type: DRS-0410-**). 5 - 15 Hz
- Output signal
(Type: DRS-0510-**). 0 - 5 V or 0 - 20 mA
- Connection
(Type: DRS-0*10-E*). EMSYS module plug system
- Connection
(Type: DRS-0*10-B*). Socket Type BCS 12 or BN 4160
- Connection
(Type: DRS-0*10-L*). Cable gland

Measurement range

- 130°

Design

- Standard and ATEX [Ex I M2 EEx ib I]

Protection class

- Ip 65

Temperature range

- -20°C ≤ Ta ≤ +60°C