



## Fill level measurement

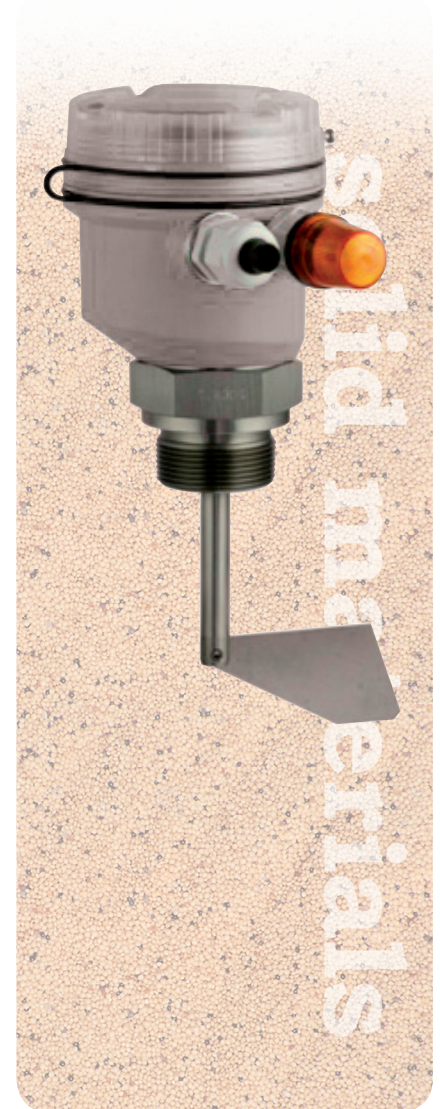
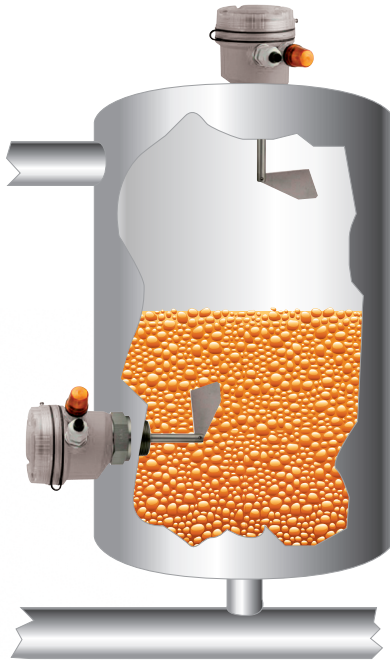


Type:  
**Silocont SIC-350**

*Rotary paddle switch for solids; simple mechanism, extremely robust and cost-effective; medium temperature: -20...+80°C; pressure: 0,5...2,5 bar abs.*

### Description

The economical Silocont SIC-350 is a paddle switch for point level detection in bulk materials. Its robust polymer housing and compact design makes it an ideal sensor for full, empty and demand alarm in applications with bulk solids. The optimized polymers make the unit outstandingly robust and therefore suitable for use in dust explosive areas according the latest standards.



### Application

- Safety comes first - Overfill prevention with an automatic rotation monitoring system
- Optical rotation control for a fast and easy check either for installation or for trouble shooting
- Extremely robust polymer housing with the latest dust Ex certification for ATEX, FM and CSA

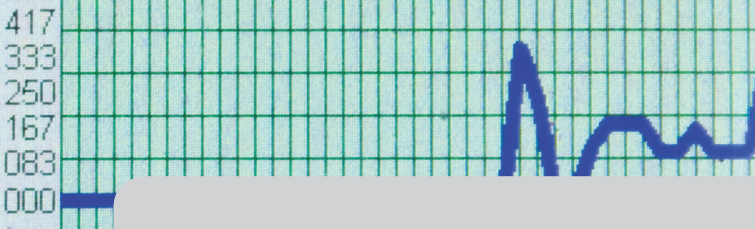
### Your benefits

- Cost savings over the whole life cycle: quick installation; fast trouble shooting concept without the need of demounting; best price performance ratio in the market
- Adjustment to weight of solids without the need for tools
- Housing can be rotated 360° to enable optimal alignment following installation

### Specials



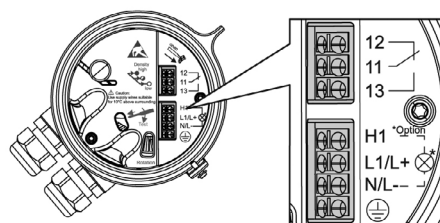
Order code. . . . . page |04|



## Technical data

| Techniscal data                                     |                                                                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Measuring Principle:                                | Paddle                                                                                                                     |
| Characteristic / Application:                       | universally applicable as a full, empty and demand alarm on silos containing solids                                        |
| Supply / Communication:                             | 230 VAC 50/60 Hz; 115 VAC 50/60 Hz; 24 VAC 50/60 Hz; 20 bis 28 VDC                                                         |
| Ambient temperature:                                | -20 °C ... 60 °C (-4 °F ... 140 °F)                                                                                        |
| Process temperature:                                | -20 °C ... 80 °C (-4 °F ... 170 °F)                                                                                        |
| Process pressure absolute / max overpressure limit: | 0.5 bar to 1.8 bar (7 psi ... 25 psi)                                                                                      |
| Min. density of medium:                             | >= 80 g/l                                                                                                                  |
| Main wetted parts:                                  | 1.4305                                                                                                                     |
| Max. tensile strength:                              | Rope version >1500N                                                                                                        |
| Process connection:                                 | NPT 1 1/2", PBT; NPT 1 1/4", PBT; G 1 1/2", PBT; NPT 1 1/2", 1.4305; NPT 1 1/4", 1.4305; G 1 1/2", 1.4305                  |
| Sensor length:                                      | 75 mm (3"); 100 mm (4"); 120 mm (4 3/4"); 200 mm (8"); 300 mm (12"); Rope length of approx 2000 mm (80"), can be shortened |
| Output:                                             | Micro switch with changeover contact max. 10 A/250 VAC                                                                     |
| Certificates / Approvals:                           | ATEX II 1/3 D; CSA DIP/ II, III/1/E-G (requested!); FM DIP/ II, III/1/E-G                                                  |
| Options:                                            | Rotation Monitoring System; Signal Lamp; Fold-away paddle; Weather protection cover                                        |
| Specialities:                                       | Rotation Monitoring System; Fold-away paddle                                                                               |
| Components:                                         | HAW569 Surge arrester                                                                                                      |

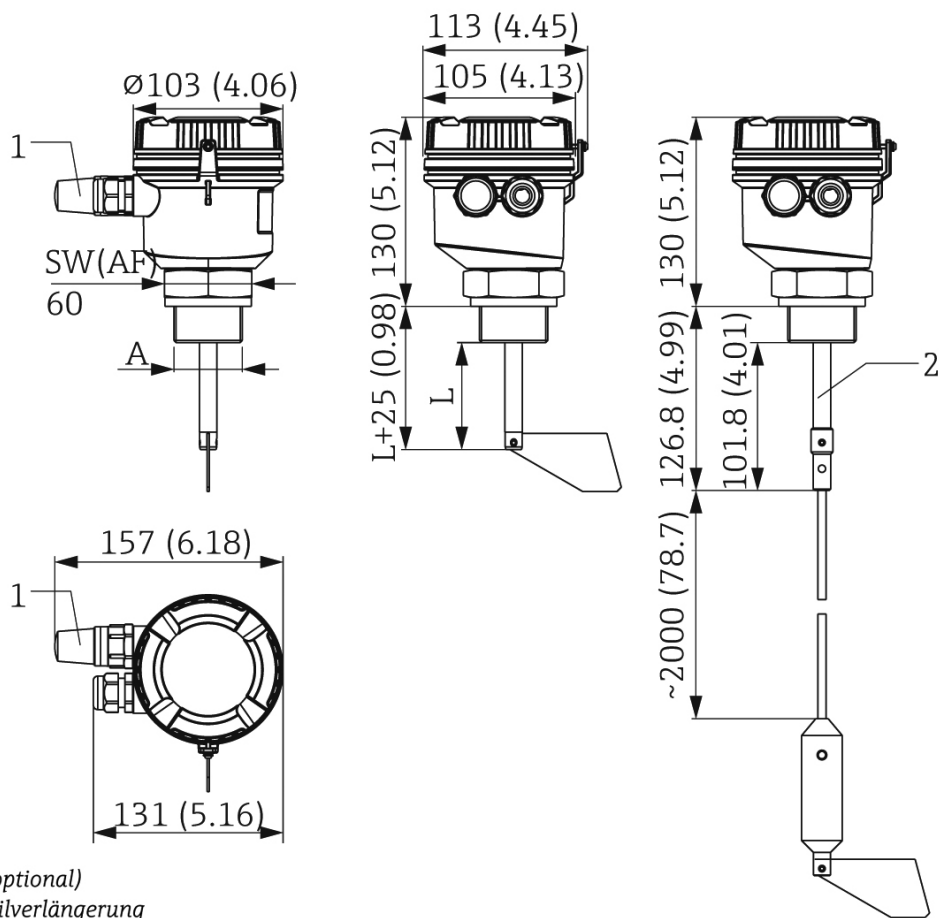
## Connection



⊕  
N (AC), L- (DC)  
L1 (AC), L+ (DC)  
H1 N/L-

protective conductor  
auxiliary power  
auxiliary power  
Connection for signaling the  
empty / full message (optional)  
changeover  
break contact  
work contact

11  
12  
13



| Abmessungen je nach Variante |                  |                               |
|------------------------------|------------------|-------------------------------|
| A                            | Prozessanschluss | NPT 1¼", NPT 1½", G 1½"       |
| L                            | Länge der Welle  | 75...300 mm (2,95...11,81 in) |

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**Licence**

- AA Non-Ex-area
- BI ATEX II 1/2D Ex ta/tb IIIC Da/Db (signal lamp not possible with Ex)
- CC CSA DIP/ II, III/1/E-G
- FC FM DIP/ II, III/1/E-G

**Process connection; material**

- 11 Thread NPT 1-1/2", PBT
- 12 Thread NPT 1-1/4", PBT
- 13 Thread G 1-1/2", PBT
- 14 Thread NPT 1-1/2", 303
- 15 Thread NPT 1-1/4", 303
- 16 Thread G 1-1/2", 303
- 99 Special version

**Model; length**

- AA Spindle, 75mm
- AB Spindle, 100mm
- AC Spindle, 120mm
- AD Spindle, 200mm
- AE Spindle, 300mm
- AF rope, 2000mm, can be shortened
- AY Special version

**power supply**

- 1 20-28VDC
- 2 24VAC
- 3 115VAC
- 4 230VAC
- 9 Special version

**Measuring blade; material**

- 1 Standard; 304
- 2 Foldable; 304
- 3 Special version.

**NN**

- CA Inklusive rotation monitoring (increased safety)
- C0 Without rotation monitoring

**Equipment mounted**

- NA Signal lamp (NOT WITH EX)
- N9 Special version.
- 00 Without equipment.

Order code

SIC-350

NN CA