



Level Sensor M05

Level sensor for monitoring of liquids
made of plastic, with connecting housing



- High reliability
- Robust design
- Output 4 - 20 mA
- Designs up to 1.5m in length
- High chemical resistance

D-EN-M05-20190607



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Features

- Output 4 - 20mA or
- Resistance output in three-wire potentiometer circuit
- Temperature range: -30 °C to 150 °C
- Simple operating principle resistive reed switch measuring chain
- Accuracy grid 12 mm
- Vertical installation
- Electrical connection: housing, cable or plug output
- Protection class IP66

Measuring principle

A permanent magnet built into the float triggers, with its magnetic field, the resistance measuring chain built into the guide tube. The entire assembly corresponds to a 3-wire potentiometer circuit. The measured resistance signal is proportional to the level.

Signal transmission can be provided by external transducers and limit switches, or by a 4-20 mA two-wire transmitter, which can be integrated into the transmitter housing.

Applications

Due to their high reliability and robust mechanical design, the encoders are ideally suited for industrial use. They work safely and reliably even under harsh operating conditions and can i.a. used in the following industries:

- plant construction
- biochemistry
- chemistry
- turbines
- natural gas
- power plants
- food industry
- mechanical engineering
- offshore
- petro chemistry
- shipbuilding
- pharmacy etc.

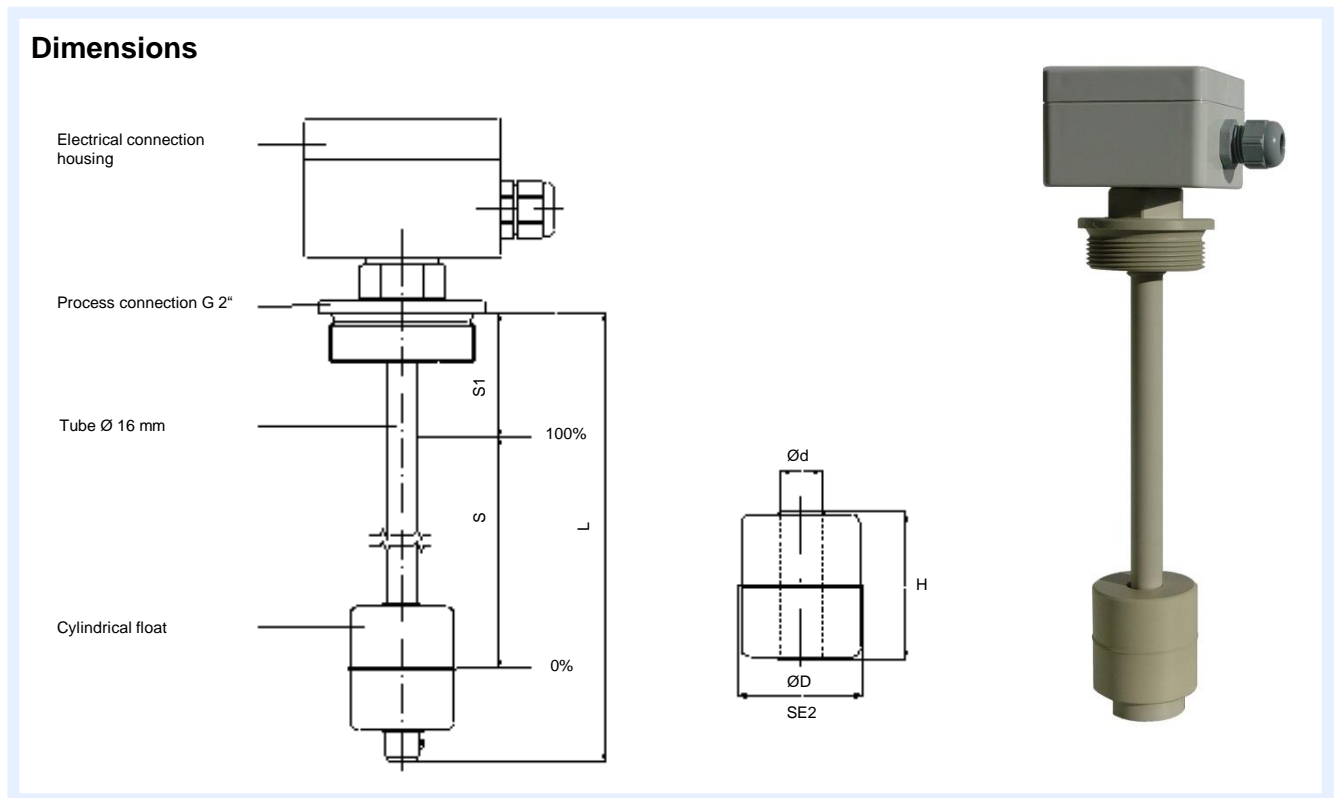
Technical data

Supply voltage	12 – 32 V DC
Output	4 – 20 mA or a 3-wire resistance signal which is proportional to the level.
Operating pressure max.	0.3 MPa
Temperature	-10°C to +80°C
Housing	Polycarbonate 80 x 82 x 55 mm Polyester 74 x 80 x 57 mm
Medium density	≥ 500 kg/m ³
Protection	IP66
Accuracy	12 mm
Tube length L	Standard: up to 1500 mm, >1500 mm on request
Process connection	Standard: G 2", Other versions on request
Material	PP, other materials such as e.g. PVDF on request



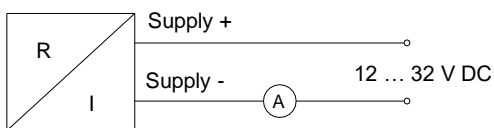
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Float type	Dimensions (mm)			Operating pressure max. (MPa)	Operating temperature max. (°C)	Medium density (kg/m ³)	Material
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SK2 Cylindrical float	55	18.5	55	0.3	80	≥ 500	PP

Electrical connection



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Ordering information

M 05

Electrical connection

- A Polycarbonate housing 80 x 82 x 55 mm, IP66
- B Polyester housing 75 x 80 x 57 mm, IP66

Process connections connection (Mounting position: vertical, $\pm 30^\circ$)

- A Mounting screw thread G 2", PP
- X Other versions on request

Tube length L (see „Dimensions“)

Tube material PP, \varnothing 16 mm
 Tube length from sealing surface process connection
 Tube length $L \leq 15000$ mm; $L > 1500$ mm on request
 Indication in mm

Float type

- A SK2 (PP float \varnothing 55 mm)
- X other versions on request

Option

- O without Zweileitermessumformer
- Z with two-wire transmitter, 4 – 20 mA



Distance sealing face to 100 % mark
 (X \geq dead band T in mm [in] (from sealing edge))

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Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.