

SOMLEVEL-30

SOMLEVEL-30-SDI-12

Level Sensor

TEAWORK



The SOMLEVEL-30 is the ideal radar sensor for non-contact level measurement in all standard applications where a high degree of performance is required. It is particularly suitable for level measurements in rivers and channels, water treatment canals and pumping stations, lakes and rain overflow basins, and level monitoring for industrial applications with liquid handling.

The SOMLEVEL-30 emits a continuous 80-GHz radar signal towards the surface of the medium where it is reflected and then detected by the sensor antenna.

The frequency difference between the emitted and received signal is proportional to the distance and depends on the level. The determined level is then converted into a 4 ... 20 mA or SDI-12 output signal. The latter is designed for connection to data loggers with SDI-12 interface, making it particularly suitable for battery-powered applications requiring low power consumption.

Due to the contact-free, highly reliable technology the SOMLEVEL-30 is not affected by high temperature or intense humidity, floods, floating debris or turbid water and provides maximum data quality. With its compact and versatile design it is easily installed and requires no maintenance.

Versions

Art	Version
21664	SOMLEVEL-30, 4...20 mA output, straight cable outlet, 5-m cable
21665	SOMLEVEL-30, SDI-12 output, straight cable outlet, 5-m cable
21701	SOMLEVEL-30, 4...20 mA output, straight cable outlet, 25-m cable
21702	SOMLEVEL-30, SDI-12 output, straight cable outlet, 25-m cable

Scope of delivery

Qty	Art	Name
1	-	Level sensor in the required version

Accessories

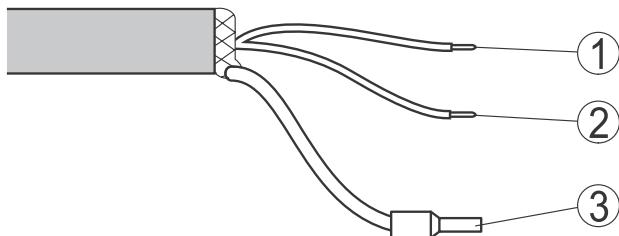
Art	Accessories
21700	Housing for SOMPULS-30, incl. brackets

Specifications

Level sensor	
Measurement range	up to 30 m (98.43 ft)
Accuracy	≤ 2 mm
Beam angle	4°
Measurement frequency	W-band (80 GHz)
Output signal	4 ... 20 mA HART
Mounting connection	Thread G1, 1NPT, R1
Process pressure	-1 ... +3 bar (-100 ... 200 kPa, -14.5 ... 43.51 psig)
Process temperature	-40 ... +80 °C (-40 ... +176 °F)
Ambient temperature	-40 ... +80 °C (-40 ... +176 °F)
Operating voltage	12 ... 35 VDC
Material	Wetted parts: PVDF Connection cable: PUR insulated
Protection rating	IP68
Size Ø x H	Ø76 x 130 mm (Ø2.99 x 5.13 in)
Weight	0.7 kg (1.543 lbs)

Connection wires

4 ... 20 mA output

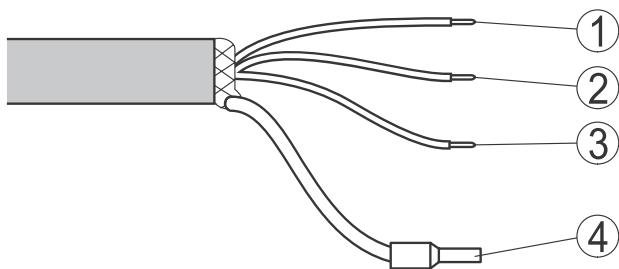


1 ... Brown (+)

2 ... Blue (-)

3 ... Shield

SDI-12 output



1 ... Brown (+)

2 ... Blue (-)

3 ... White (SDI-data)

4 ... Shield

Dimensions

