

dimensions	G3/4"
probe lengths	300mm 500mm 800mm

- ✓ **robust design in aluminum and stainless steel 1.4571**
- ✓ **parallel rod principle, thus increased precision**
- ✓ **analog output (4 to 20mA)**
- ✓ **easy programming via keypad on the display**
- ✓ **3 lengths available (300, 500 and 800mm)**
- ✓ **no calibration necessary**
- ✓ **wear-free**
- ✓ **operating temperature range 0°C to +70°C**
- ✓ **degree of protection IP67**

guided microwave analog output 4 ... 20mA



PNP	analog	M12	DC	
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description

Filling level sensors from ipf electronic reliably detect the filling level of liquids and warn when a container is overfilled. The electronic sensors don't need any mechanical components and are therefore particularly robust. Regular maintenance and cleaning of the equipment is also not required.

The sensors allow an exact determination of the filling level in plastic and metal containers. In doing so, they detect a variety of liquids, e.g. water, oil or emulsions. The level measurement is carried out with the help of short electromagnetic pulses in the nanosecond range. The pulses are emitted from the sensor head and guided along the sensor rod.

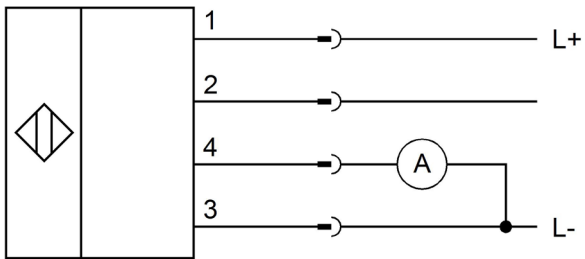
If the microwave pulse hits the medium to be detected, it is reflected, returned to the sensor and evaluated. Due to their parallel rod design, these sensors work very precisely.

A comparison to different media is not necessary! The time duration between sending and receiving the pulse serves as a direct measure of the distance traveled and thus for the current filling level. This is output via the analog output (4 ... 20mA).

Made of aluminum and stainless steel 1.4571, the units are suitable for ambient temperatures from 0°C to +70°C. The sensors are available in installation lengths of 300mm (**FM910023**), 500mm (**FM910024**) and 800mm (**FM910025**). The process connection is made via a G3/4" thread, for the electrical connection an M12-connector is provided. The parameters are set via the membrane keypad and the LED display.

Application examples

- ▶ Continuous filling level measurement of liquids in tanks

connection**colors:**

1= BN (brown), 2= WH (white), 3= BU (blue), 4= BK (black)

functions:

1= L+, 2= n.c., 3= L-, 4= 4-20mA

NOTES

A large grid area for taking notes, consisting of 20 columns and 40 rows of small squares.