

## FY98C186

### Filling level sensors • optical

sensor filling level, Optic, 10x37x23mm, 11-26V DC, PNP NC, Cable 3pin 2m PVC+PFA, IP67



Filling level and level sensors operate according to different measuring principles. The selection of the sensor depends on the medium to be detected and the ambient conditions. The material flow in a vibratory bowl can be excellently queried with inductive filling level sensors whose pendulum is moved by the material in the pot. The detection of liquid or solid media is, for instance, possible with capacitive filling level sensor technology. These work according to the principle of the condensator, the medium changes the dielectricity between two electrodes. The resulting change is converted into a digital output signal. A further alternative for the detection of filling levels of conductive media is provided by conductive filling level relays. The resistance between reference and measuring electrode is determined. If a set threshold is exceeded, a relay output switches.

#### Electrical features

Number of normally closed contacts	1
Display	LED display
Type of switching function	Normally closed contact (NC)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	50 mA
Short-circuit protection	Yes
No-load current	30 mA
Number of pins	3
Voltage drop	1 V
Reverse polarity protection	Yes
Measurement principle	Optical
Operating voltage (DC)	10,8 - 26,4 V

## Mechanical features

Number of cores	3
Design	Cuboid
Width	23 mm
Height	10.5 mm
Cable length	2 m
Length	37.2 mm
Medium temperature	-25 - 50 °C
Degree of protection (IP)	IP67
Material of cable sheath	Plastic (PVC)
Sensing element material	Plastic (PFA)
Ambient temperature	-25 - 50 °C

## Other features

Version	Leakage sensor
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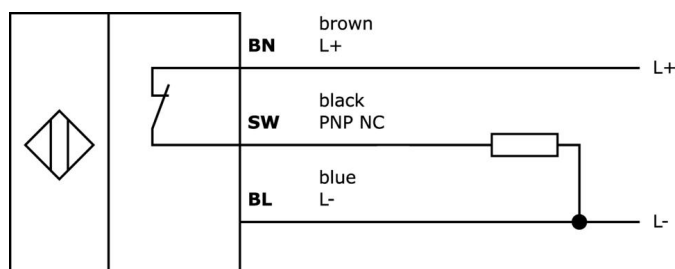
## Classification

ETIM 8	EC001447 Level/level monitoring device
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## More

IPF Product Group	350 filling level sensors (capacitive/conductive)
packaging dimensions	149 x 124 x 28 mm
gross weight	93 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

## Connection



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**Extract accessories program****AY000141**

Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

You can find further accessories on our homepage

**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal**

WEEE number according to § 6 para. 3  
ElektroG: 40951076

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**Safety warnings**

- / Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- / Never use these devices in applications where the safety of a person depends on their functionality.