

# Leakage Sensor

## DF1030i



### Description

The programmable DF1030i leakage sensors are used in combination with the DF1000i leak-monitoring system to monitor both underground and above-ground double-walled pipe systems.

### Operation

The DF1030i has a DF1020i measurement head with a 4-wire, 5-meter cable for assembly in a pipe.

It is extremely important that the earth of this cable and the continuing cable are connected correctly.

The DF1020i has four measurement electrodes, which detect the presence of fluid, provided they are correctly fitted in the pipe.

Thanks to the measurement head's special construction, these electrodes are not affected by condensation. If the electrodes detect the presence of fluid, the relevant DF1030i is activated and an alarm notification is generated.

Combined with the DF1020i, the DF1030i is able to test whether the measurement circuit is intact. A notification is sent to the DF1000iA base unit in the event of a wire interruption and/or a short circuit in the wire to the DF1020i.

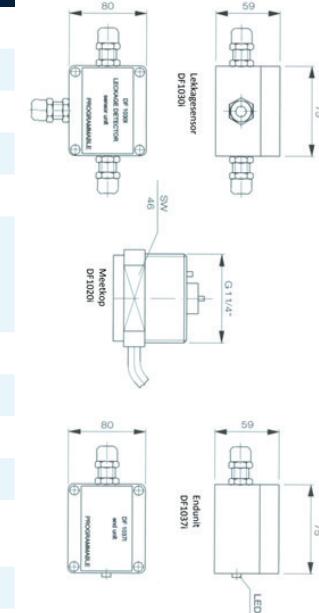
The location of the fault can be read digitally on the DF1000i thanks to the leak sensor's code.

A maximum of 99 programmable sensors can be used with one leak-monitoring system.

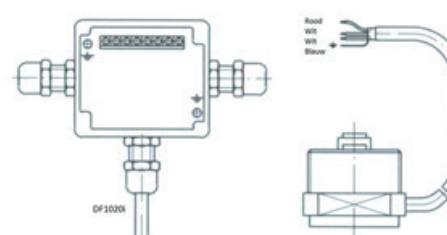
### Technical specifications

#### Technical specifications DF1030i

<b>Supply voltage:</b>	24 VDC
<b>Passive current consumption:</b>	300 $\mu$ A
<b>Active current consumption:</b>	50 mA (1 sec)
<b>Measurement range:</b>	G = 10-7 to 1 S(emens)
<b>Weight:</b>	Approx. 400 g
<b>Material:</b>	Polypropylene - DF1020i measurement head - DF1020i electrodes - DF1030i housing: Hastelloy C-276 Aluminium
<b>Dimensions:</b>	75 x 80 x 59 mm
<b>Ingress protection:</b>	DIN 40050, IP65
<b>Electrical connection:</b>	Connector 1.5 mm <sup>2</sup>
<b>Alarm:</b>	Red LED
<b>Relative humidity:</b>	90% non-condensing according to DIN 40042
<b>Temperature:</b>	- 10 °C to 70 °C



### Electrical connection:



**DF1020i cable:** Insulated, 4-wire with earth  
2x white, 1x red and 1x blue

**Colour:** Green

**Cable length:** 5 m