

Leakage probe PUKK

Floor probe for conductive leakage detection of electrical conductive liquids

Data sheet 06.24



Application

- Suitable for ground mounting
- Leakage monitoring in drip trays, raised floors, suspended ceilings, computer rooms with cooling channels

Main features

- Compact version with evaluation electronics in the head possible
- High protection against major water damage and system failures



Description

The device is a conductive leakage sensor for leakage detection of electrically conductive liquid media. The alternating voltage generated by the integrated electronics is present between the electrode contacts. By using an alternating voltage, corrosion on the electrode and electrolytic decomposition of the filling material are avoided.

As soon as the electrically conductive filling material forms a connection between the electrodes, a measurable current flows, which causes the evaluation electronics to react.

Depending on the safety circuit set, this causes the output relay or the PNP switching output to switch. The switching status of the output is displayed internally in the device with yellow LEDs.

The leakage probe can be adjusted to adjust the response threshold to the conductivity of the liquid.



Technical Data

Process pressure max:	Pressureless
Medium temperature:	-20°C...60°C
Material connection head:	POM / PP / PTFE
Material probes:	Steel 1.4404/316L bzw. 1.4571/316Ti / Hastelloy C4

Electrical connection

Electronics - supply / output [02/03-GA] – switching output PNP

Terminal assignment

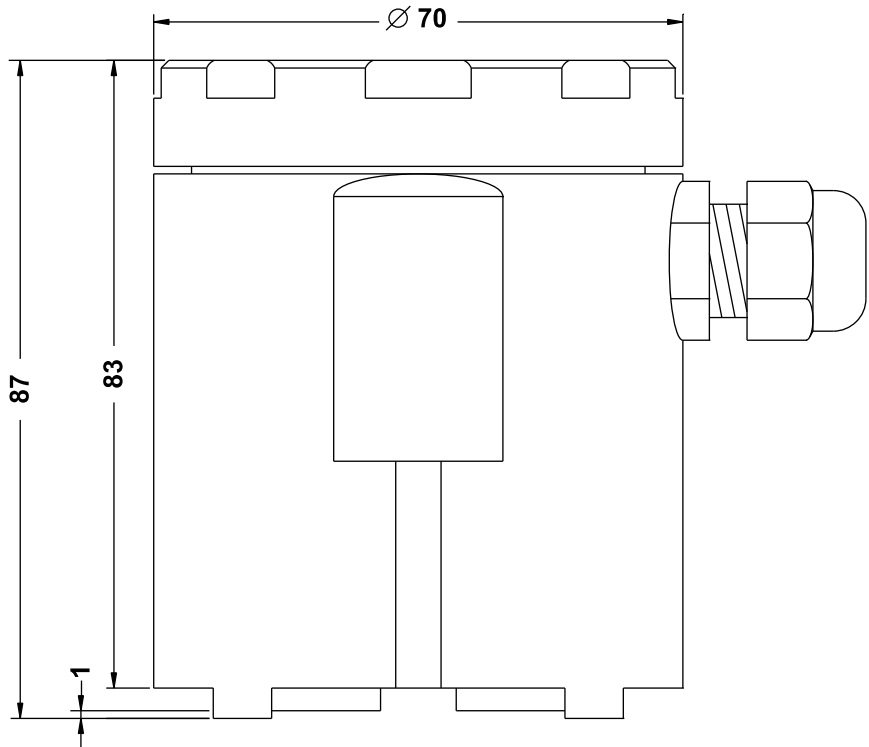
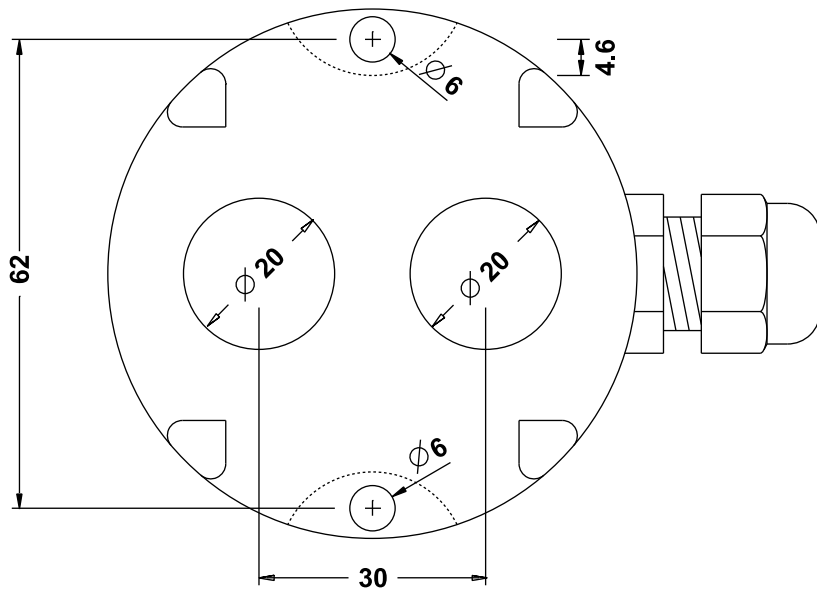
Electrical connection [01-K] - Terminal box	Electrical connection [01-V] - Cable L5m
<p>1 2 3</p> <p>4 5 6</p> <p>CH2 - 2 CH1 - 1 REF - C</p> <p>L+ L- S1</p> <p>24V DC +/-10%</p>	<p>1 2 3</p> <p>L+ L- S1</p> <p>24V DC +/-10%</p> <p>≤ 0,5A</p>

Electronics - supply / output [02/03-UB] – relay output

Terminal assignment

Electrical connection [01-K] - Terminal box	Electrical connection [01-V] - Cable L5m
<p>1 2 3</p> <p>7 8</p> <p>N / L- L / L+ N L</p> <p>S1</p> <p>≤ 30V AC/DC ≤ 2A / ≤ 60W</p> <p>20...30V AC/DC 50/60 Hz</p>	<p>1 2 3 4 5</p> <p>N / L- L / L+ S1-NO S1-C S1-NC</p> <p>20...30V AC/DC 50/60 Hz</p> <p>≤ 30V AC/DC ≤ 2A / ≤ 60W</p>

Dimensions (mm)



Order code

Electrical connection

- K Terminal box
- V Cable 5 m

Auxiliary power

- G DC voltage 24 V DC
- U AC / DC voltage 20 ... 30V AC / DC

Electronic output

- A 1x PNP switch output (only at electronic supply type G)
- B 1x relay output (only at electronic supply type U)

Model

- 2 2-electrodes 1x limit

Process connection

- A Screw fixing

Material electrodes (medium contact)

- A CrNi steel 316L/316Ti
- D Hastelloy® C 4

Material housing (medium contact)

- D POM
- P PP
- T PTFE

PUKK

2 A