CE

Non-adhesive Pipeline Probe 0425 / 0426

HR-0425
HR-0426

- **precise switching point repeatability, even with adhesive media**
- **high short-time loading capacity**
  max. temp.: 120 °C
  max. pressure: 16 bar
- **suitable for use with food products**
- **no on-site adjustment necessary**

Function:
The measuring electrode of the probe produces an electric field at the pipe or container wall that is changed in the presence of the liquid medium.
The analyser unit detects this change and converts it to a switching signal. The special construction of the probe and the intelligent analysis guarantees precise repeatability of the switching signal, even with adhesive media.

Mounting notes:
When used for limit value detection, the probe can be mounted in any position on the container.
When used to protect against dry running, the probe should be installed vertically upright on the suction side of the pump or on the pipe being monitored. This is also the case in the drink filling industry where, e.g. a drop in the fluid level or presence of foam build-up in a filled pipe cross section should be signaled.
Rotating the terminal head allows the cable gland to be turned to suit the installation.

Special loading capacity:
The material and construction of the probe allow high short-time (30 min.) pressure (max. 16 bar) and temperature (medium temperature 120 °C) loading of the probe, such as the cleaning processes that are often found in the food industry.

Order No.: **HR-042 . . .**

Response sensitivity:
conductance of the medium:
- ≥ 0.1 µS/cm 5
- ≥ 100 µS/cm 6

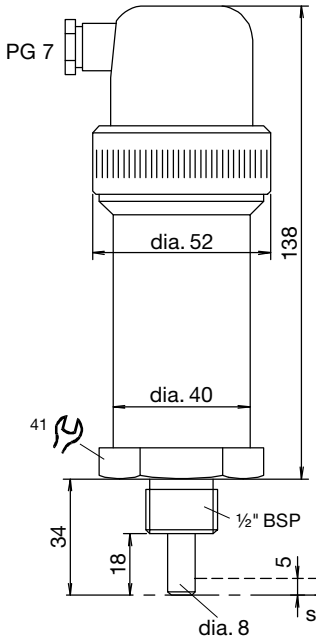
Mounting:
screw fitting:
- ½" BSP 0
- 1" BSP 1

Output function:
- make switch 0
- break switch 1

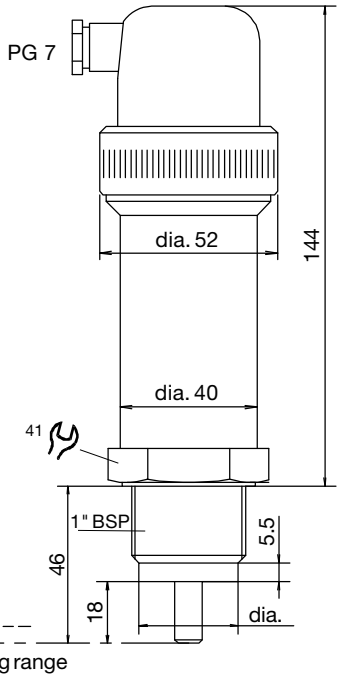
bus connection: AS-I 2

special versions on request

Dimensions / types:

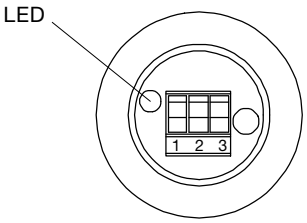


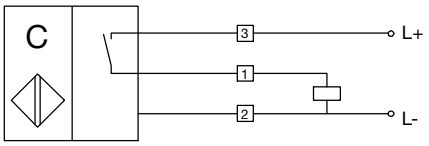
HR-042 . 0 .



HR-042 . 1 .

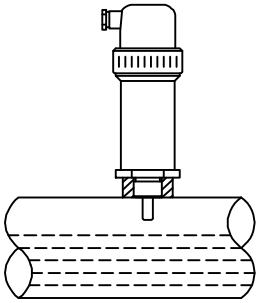
Display elements / connection:





Caution:
the sensor electrode must be free when mounted

the minimum distance to neighbouring screw fitting and pipe elements must be ≥ 5 mm



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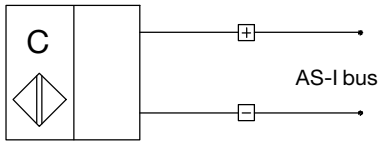
Technical Data	HR-0425 / 0426
Supply	
Operating voltage U_B	DC 24 V (± 25%)
Operating current J_L	≤ 30 mA
Output	pnp (positive switched)
Switching function	make switch / break switch (please specify when ordering)
Current	max. 500 mA short-circuit proof / overload proof
Short-circuit current	≤ 1.5 mA
Switching state indicator	LED, red
Environmental conditions	
Ambient temperatures	253 K ... 323 K (-10 °C ... +50 °C)
Medium temperatures: continuous	≤ 333 K (60 °C)
short-time (max.0.5h)	≤ 393 K (120 °C)
max. pressure	16 bar
Mechanical	
Terminal box	synthetic, transparent
Connector clamps	max. 2.5 mm²
Cable gland	synthetic, PG 7
Casing / screw fitting	stainless steel 1.4571
Electrode	PVDF
Type of protection	IP 67
Connection diagram	see Display elements, connection
AS-I bus version HR-042 . . 2	
Supply	2 wire connection to Master
Indicator	LED, green: ready LED, red: switching state
Connection diagram	

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