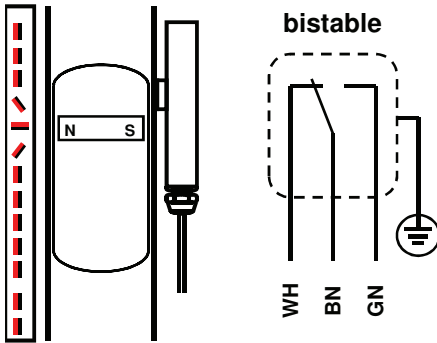
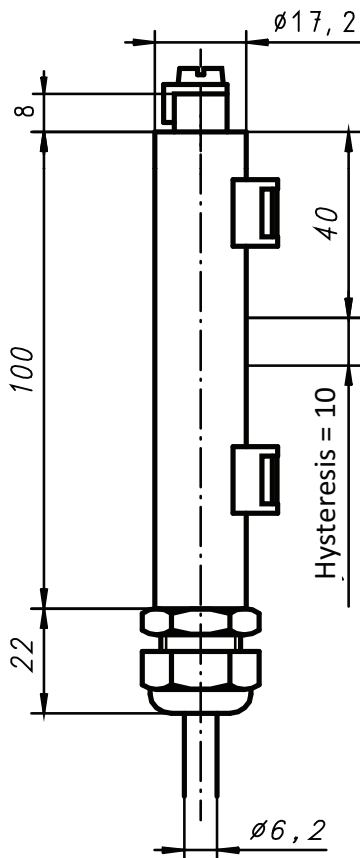


External electrical connections



- Installed opposite to indication rail
- Cable exit downwards

Dimensions



Fixation

When ordering level indicators with switches, hose clamps are included.
 When ordering switches as spare parts, hose clamps are never included and must be ordered separately.
 In case of ordering hose clamps pipe size must be indicated:

For pipe diameter	30...40mm	Article no.	80648
For pipe diameter	40...57mm and 57...80mm	Article no.	84043

Note

The relevant certificates are available at www.weka-ag.ch
 The cable must be durably installed. This device is maintenancefree and repair work is prohibited.
 For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.

Function

Magnetic switch for WEKA Visual Level Indicators

The magnetic switch is mounted outside of the float chamber opposite to the indication rail. The switching logic can be reversed by inverting the switch module with cable-exit upwards or by installing the switch module adjacent to the indication rail where technically authorised (see datasheet 20010501).
 The magnet inside the float activates the reed switch, when the liquid in the float chamber reaches that level. The switch must be connected with a certified energy limiting device (e.g. Zener barrier) installed in a safe area. This device guarantees the electrical limit values specified below, including the cable. Please refer to the safety guidelines.

Product code	(standard)	31160-NI/3	with 3m cable
		31160-NI/5	with 5m cable
		31160-NI/10	with 10m cable
		31160-NI/20	with 20m cable

Switching logic

Change-over, bistable

Contact rating

max.	230V
max.	1A
max.	60VA
max.	60W

Electrical characteristics

Ci = max.	250pF
Li = max.	5uH

Enclosure

IP68 - 10bar (EN 60529)

Material

Housing	Stainless steel 316 /316L
Cable gland	PA6: blue, 4...8mm
Seal	Perbunan (NBR)
Cable	LiYCY/EB: blue, Ø 6.2mm (110pF, 0.7µH/r shielded, but not connected)
Shield	3 x 0,75mm ²
Cable cores	WH, BN, GN
Core colours	
Type label	Polyester: silver, black printing

Operating conditions

Media temperature	Ambient temperature	Temperature class
-50 °C...+150 °C	-20 °C...+80 °C	T3 (200 °C)
-50 °C...+135 °C	-20 °C...+80 °C	T4 (135 °C)
-50 °C...+100 °C	-20 °C...+80 °C	T5 (100 °C)
-50 °C...+85 °C	-20 °C...+80 °C	T6 (85 °C)

Media temperature	Temperature of liquid within the float chamber
Ambient temperature	Temperature of air around the magnetic switch
Temperature class	Specified max. surface temperature

Grounding

A connection to protection ground is only guaranteed if both fastening clamps are used to fix the magnetic switch to the float chamber. If the float chamber does not have electrical continuity to protective ground, or if only one fastening clamp can be used for fixing the switch, the connection must be made with the foreseen screw clamp of the switch.