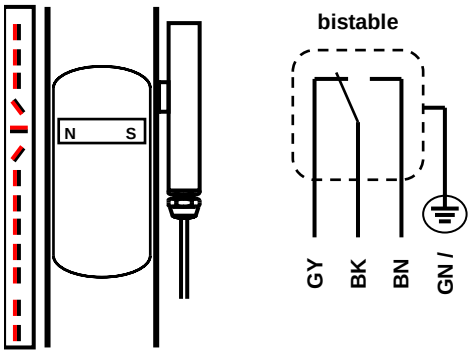
Magnetic switch, Change-over, bistable, Flameproof enclosure

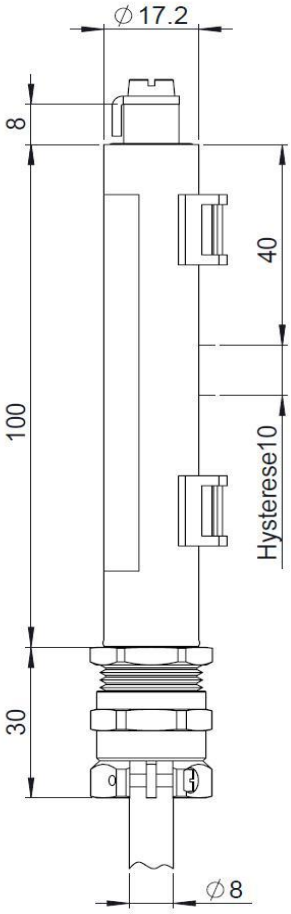
II 2 G Ex d IIC T6 Gb / II 2 D T85°C Ex tb IIIC Db — Type 31160-ND

External electrical connections



- Installed opposite to indication rail
- Cable exit downwards

Dimensions



Instruction manual

Function **Magnetic switch for WEKA- VLI**

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 (see datasheet 20010501).
The magnet inside the float activates the reed switch, when the liquid in the float chamber reaches that level.

Please refer to the safety guidelines.

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

Switching logic	**Change-over, bistable**	
Contact rating	max.	230V
	max.	1A
	max.	60VA
	max.	60W
Certificate	ZELM 03 ATEX 0190 / IECEx ZLM 14.0002	
Enclosure	IP68 - 10bar (EN 60529)	

Material

Housing	Stainless steel 316 /316L
Cable gland	Brass: nickel-plated, 7…9mm
Seal	Perbunan (NBR)
Cable	Silicon: red, Ø 8.0mm,largely resistant to oils/petroleum products
Shield	not shielded
Cable cores	4 x 1,0mm² (3 + PE)
Core colours	BN, GY, BK, GN/YE
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.

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 seperately.
Only genuine parts have to be used as spare parts. 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

EC- Type-Examination Certificate resp. IECEx CoC has additionally to be considered. www.weka-ag.ch
The cable must be durably installed. This device is maintenance free and repair work is prohibited.
For use in areas with explosive dust consider the max. media temperature instead of max. surface temperature.
Only to use in combination with thermal non-insulated float chamber.

WEKA AG - Schürlistrasse 8 - CH-8344 Bäretswil
Phone +41 43 833 43 43 - Fax +41 43 833 43 49 - info@weka-ag.ch - www.weka-ag.ch