

Function: Transmitter Ex d with ATEX/IECEX certificate for use with WEKA VLI for media temperature $\leq 150^{\circ}\text{C}$

The transmitter is mounted outside of the float chamber opposite to the indication rail (see datasheet 20010501).

The magnet inside the float activates the reed switches in the transmitter, depending on the level of liquid in the float chamber, thereby changing the effective value of a resistance network. This converts a current input into a variable voltage output signal that can be fed directly to a remote display or recording instrument.

If the liquid level rises above the measuring range of the transmitter the output signal jumps to 115% and remains on that limit.

This transmitter is compatible with Zones 1, 2, 21 and 22 for gas groups IIA, IIB, IIC, IIIA, IIIB and IIIC.

The metal housing of the transmitter must be connected to protection ground.

Certificate

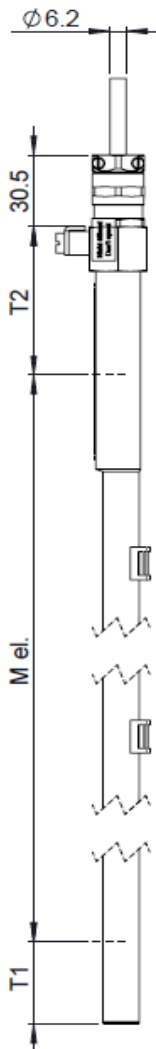


II 2 G Ex db IIC T6 Gb
II 2 D Ex tb IIIC T85°C Db

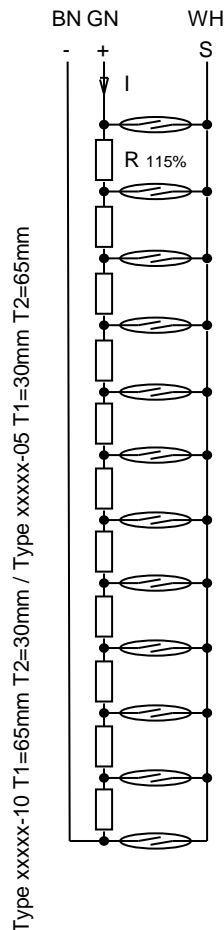
SEV 17 ATEX 0104
IECEX SEV 17.0001

Temperature class resp. max. surface temperature refers to below mentioned table.

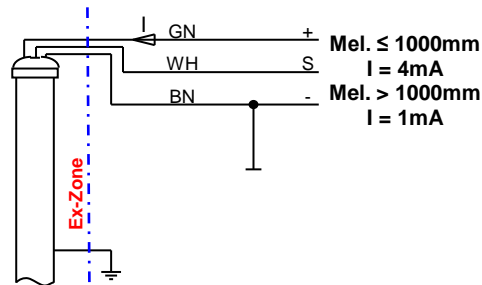
Dimensions



Internal circuit



External electrical connections



Product code:
[For details see page 2](#)

29710-ND-10 10mm resolution
29710-ND-05 5mm resolution
M el. = Measuring length in mm

Resolution
Transmitter tube dia.
Measuring length "M el."

29710-ND-10 10mm
29710-ND-05 5mm
Ø 14 / 10 Ø 17 / 14
200mm (min.) ... 4000mm (max.)

Supply current
M el. $\leq 1000\text{mm}$ I = 4mA
M el. $> 1000\text{mm}$ I = 1mA

Operating temperatures

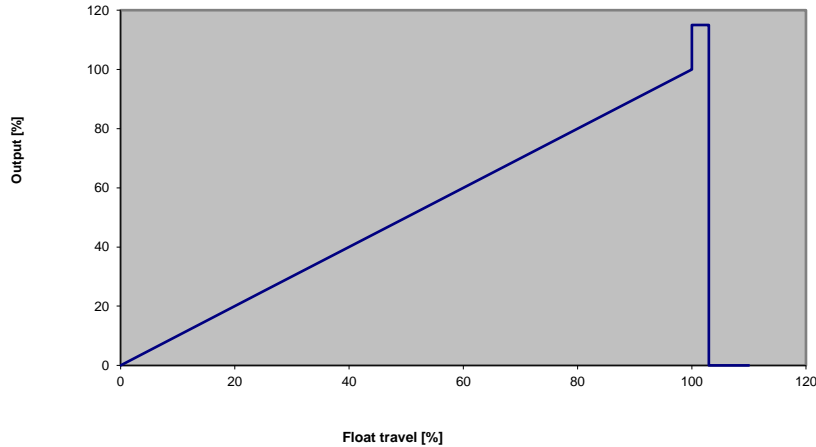
Media temperature	Ambient temperature	Temperature class
-50°C...+150°C	-50°C...+50°C	T4 / T105°C
-50°C...+135°C	-50°C...+50°C	T4 / T100°C
-50°C...+100°C	-50°C...+50°C	T5 / T95°C
-50°C...+85°C	-50°C...+50°C	T6 / T85°C

Enclosure


IP66 & IP68 - 10bar (EN60529)

Signal output

- with R = 10Ω and I = 1mA
10mV per step (1cm) For 29710-ND-10 one step = 1cm and for 29710-ND-05 one step = 5mm
- with R = 10Ω and I = 4mA
40mV per step (1cm) For 29710-ND-10 one step = 1cm and for 29710-ND-05 one step = 5mm



Materials

Housing tube	Stainless steel 316 / 316L	
Cable gland	Brass, nickel-plated	
- Seal	PA / FPM	
Cable (Standard 5m)	Silicone, red, 3 x 0,5mm ² , Ø ~6,2mm, largely resistant to oils/petroleum products, halogen-free	
Type label	Stainless steel, lasered	

Electrical limit values

U_{max} = 15VDC
I_{max} = 4mA

Fixation

When ordering level indicators with transmitters, hose clamps are included.
When ordering transmitters 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	P/O	80648
For pipe diameter	40...57mm and 57...80mm	P/O	84043

Note

Please read the instructions in our datasheet 20010501 before performing installation.
This device is maintenancefree and repair work is prohibited.
The cable must be durably installed.
The relevant certificates are available at www.weka-ag.ch These information has to be considered additionally.