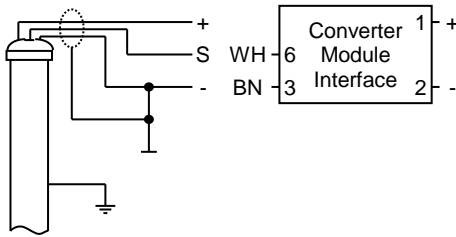


External electrical connections



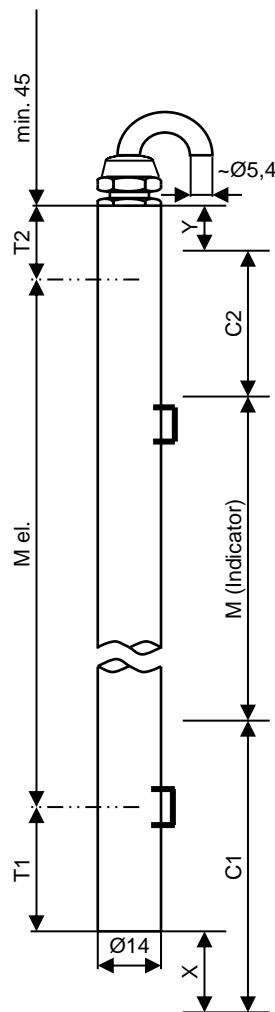
**Description:** Transmitter for use with HART®, PA® or Foundation Fieldbus™ converter module interface, 4...20mA current output and with WEKA Visual Level Indicators media temperature ≤ 350°C

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. The resulting voltage output is converted into a 2-wire 4...20mA current output with superimposed HART®, PA® or FF™ digital communication. The measuring length of transmitter (M el.) must be larger than the measuring length of the indicator (M). Refer to the table below. Transmitter settings are selected through the Converter Module Interface.

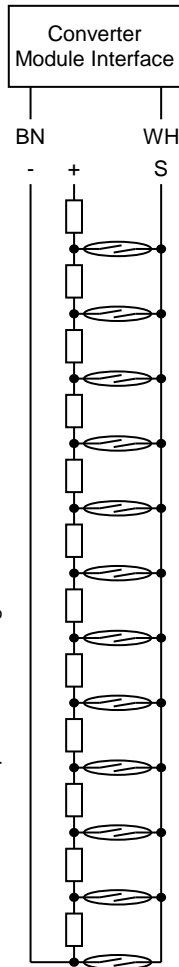
**Product code:** 29710-R-W-010-10 10mm Resolution  
29710-R-W-010-05 5mm Resolution  
M el. = (see below)

Dimensions

Internal circuit



Type xxxxx-10 T1/T2 = Depends on settings of Converter Module Interface  
Type xxxxx-05 T1/T2 = Depends on settings of Converter Module Interface



Measuring length "M el." 250mm (min.) to 4000mm (max.)

Level Indicator	Media Density	x	y	Measuring Length (M el.)
Type	[g/cm <sup>3</sup> ]	[mm]	[mm]	[mm]
34000-A /-K u. 34110-K	≥ 0,6	20	10	= M + 330
34000-A /-K u. 34110-K	≥ 0,7	20	10	= M + 230
34000-A /-K u. 34110-K	≥ 0,8	20	10	= M + 160
34000-A /-K u. 34110-K	≥ 1,0	20	10	= M + 120
Standard Line -A /-K High Pressure Line -A /-K Petro Line -A /-K				= M + 180

For others, calculate M el. as follows:

M el. [mm] = M + C1 - X - 65 + C2 + Y - 30 (M = measuring length of indicator)

- HART®, PA® or FF™ Converter: [HART 37383](#) / [HART 40038](#) | [HART 37384](#) / [PA + FF 40268](#)
- Transmitter housing tube dia.: Ø 14 / 10 | Ø 17 / 14
- Resolution: 10mm | 5mm
- Power supply: Refer to HART®, PA® or FF™ Converter Module Interface data sheet
- Operating temperature: Media temperature -50°C ... +350°C; Ambient temperature (Ta) -20°C ... +50°C
- Enclosure: IP68 - 10bar (EN60529)
- Materials: Housing tube: Stainless steel 316 / 316L; Cable gland: Brass: nickel plated; Seal: FKM / Fluoroelastomere; Cable (Standard 5m): Silicone: red, 2 x 0.5mm<sup>2</sup>, Ø ~ 5,4mm, halogen-free, largely resistant to oils/petroleum; Polyester: silver, black printing



Fixation

When

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

Note

Please read the instructions in our datasheet 20010501 before performing installation. The cable shielding is not connected with the transmitter housing. This connection should be effected by the user. In case of Ex, the cable must be durably installed. This device is maintenancefree and repair work is prohibited. The transmitter can be inverted with the cable entry at the bottom. Setting of the converter module interface must then be changed.