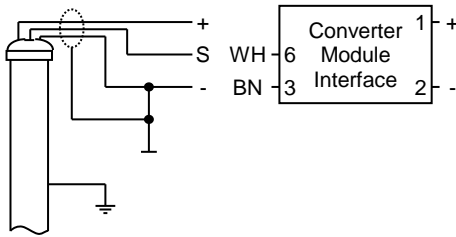


External electrical connections

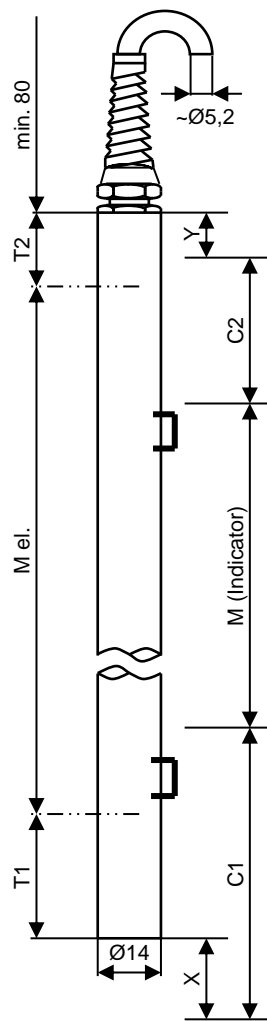


**Description:** Transmitter for use with HART®, PA® or Foundation Fieldbus™ converter module interface, 4...20mA current output and with WEKA Visual Level Indicators media temperature ≤ 150°C

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.

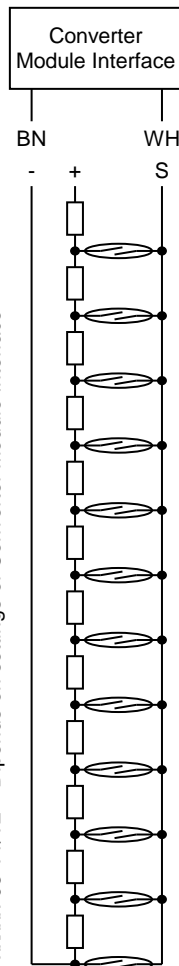
**Product code:** 29710-R-010-10 10mm Resolution  
 29710-R-010-05 5mm Resolution  
 M el. = (see below)

Dimensions



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

Internal circuit



**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:

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

<b>HART®, PA® or FF™ Converter</b>	<a href="#">HART 37383</a> <a href="#">HART 40038</a>	<a href="#">HART 37384</a> <a href="#">PA + FF 40268</a>
<b>Transmitter housing tube dia.</b>	Ø 14 / 10	Ø 17 / 14
<b>Resolution</b>	10mm	5mm
<b>Power supply</b>	Refer to HART®, PA® or FF™ Converter Module Interface data sheet	
<b>Operating temperature</b>	Media temperature -50°C ... +150°C Ambient temperature (Ta) -20°C ... +50°C	
<b>Enclosure</b>	IP68 - 10bar (EN60529)	
<b>Materials</b>	Housing tube Stainless steel 316 / 316L Cable gland PA: with cable bend protection, grey - Seal Perbunan (NBR) Cable (Standard 5m) PVC: grey, 2 x 0.34mm <sup>2</sup> , Ø ~ 5,2mm, shielded, largely resistant to oils/petroleum products	
<b>Type label</b>	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.  
 The transmitter can be connected as resistor network only when leads WH and BN are connected.  
 The transmitter can be inverted with the cable entry at the bottom. Setting of the converter module interface must then be changed.