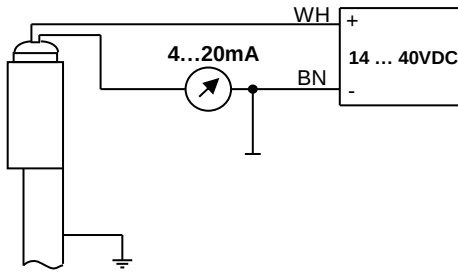


External electrical connections



Description

Transmitter, 4...20mA current output for use with WEKA Visual Level Indicators 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. The resulting voltage output is converted by an internal electronic circuit to a 4...20mA signal. If the liquid level rises above the measuring range of the transmitter (30 mm) the output signal jumps to 115% (ca. 22,5mA) and remains on that limit.

Product code:

[For details see page 2](#)

31967-010-10

10mm resolution

31967-010-05

5mm resolution

M el. = Measuring length in mm

Dimensions

Internal circuit

Resolution

31967-010-10

10mm

31967-010-05

5mm

Transmitter housing tube dia.

$\varnothing 14 / 10$

$\varnothing 17 / 14$

Measuring length "M el."

200mm (min.) to 4000mm (max.)

Longer M el. available with types 34067, 34167, and 34267 (more piece design)

Signal output

4...20mA current loop

Loop supply voltage

14 ... 40VDC

Operating temperature

Media temperature

$-50^{\circ}\text{C} \dots +150^{\circ}\text{C}$

Ambient temperature (T_a)

$-20^{\circ}\text{C} \dots +50^{\circ}\text{C}$

Enclosure

IP68 - 10bar (EN60529)

Materials

Housing tube

Stainless steel 316 / 316L

Cable gland

PA: with bend protection, grey

- Seal

Perbunan (NBR)

Cable (Standard 5m)

PVC: grey, $2 \times 0.75\text{mm}^2$, $\varnothing \sim 6.2\text{mm}$, shielded,

largely resistant to oils/petroleum products

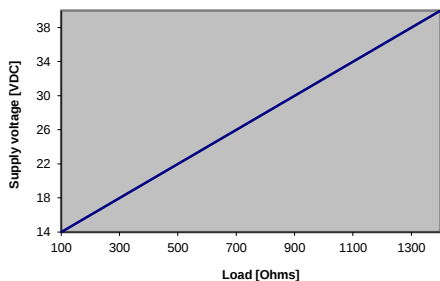
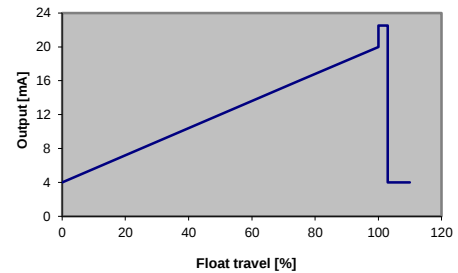
Polyester: silver, black printing

Type label

Output load

max. 100Ω at 14VDC

max. $1.4\text{K}\Omega$ at 40VDC



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:

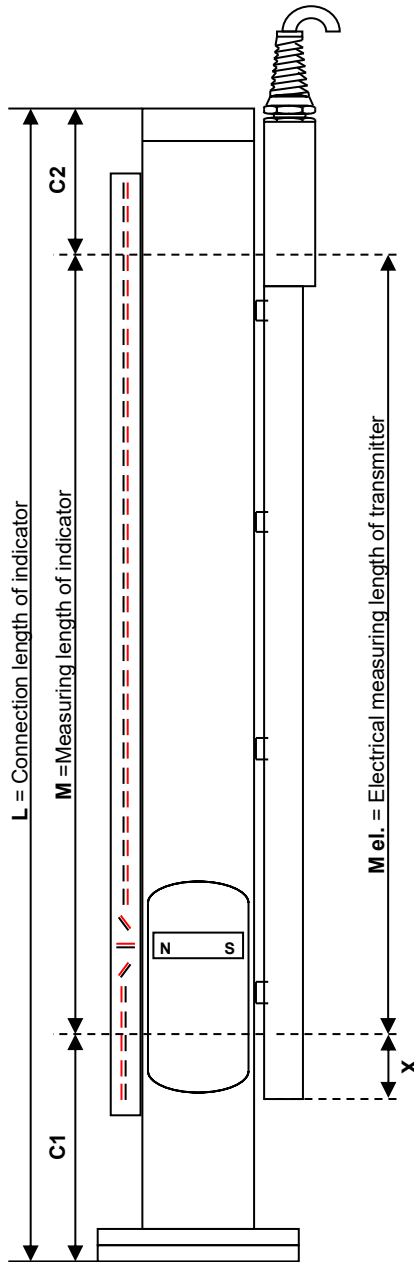
For pipe diameter 30...40mm Part no. 80648

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

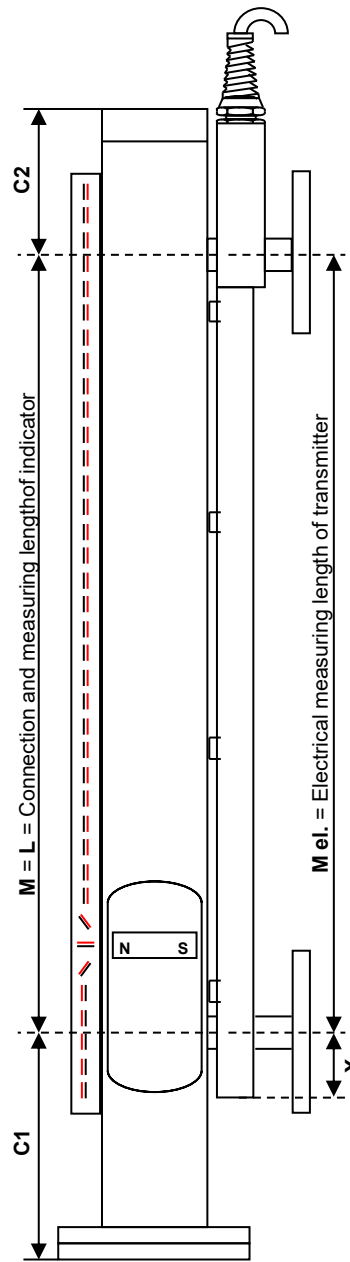
Note

Please read the instructions in our datasheet 20010501 before performing installation.

Level Indicator A-version



Level Indicator K-version



Terminology:

L =	Length between process connections	X =	Initiating point of transmitter
M =	Measuring length (indication length) of level indicator		
M el. =	Measuring length of transmitter		
C1 =	Bottom float extension		
C2 =	Top float extension		
			10 mm resolution -> X = 65 mm
			5 mm resolution -> X = 30 mm
			29710-R-xx version -> see datasheet

Visual level indicators version -A and -K are recommended for most applications.

Visual level indicators version -B and -O may require special dimensions and should be confirmed by WEKA before ordering.

Transmitter length:

Type -K and -O magnetic level indicators:
M el. = M = L or M el. = according to customer order (<M)

Type -A and -B magnetic level indicators:
M el. = M or M el. = according to customer order (<M)

Note:

When M el. < M, then a bi-stable reed switch is necessary.
For transmitters type 29710-R-x-010-xx M el. must be > M.