Transmitter 2-Wire Standard

**Description**
Transmitter, 4…20mA current output for use 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 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:**
- 31967-010-10 10mm resolution
- 31967-010-05 5mm resolution

**M el.** = Measuring length in mm

**Dimensions**

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Ø14 / 10</th>
<th>Ø17 / 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>10mm</td>
<td>31967-010-10</td>
<td>31967-010-05</td>
</tr>
<tr>
<td>5mm</td>
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</tbody>
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**Output load**
max. 100Ω at 14VDC  
max. 1.4KΩ at 40VDC

**Operating temperature**
- Media temperature
  -50°C … +150°C
- Ambient temperature (Ta)
  -20°C … +50°C

**Enclosure**
IP68 - 10bar (EN60529)

**Materials**
- Housing tube: Stainless steel 316 / 316L
- Cable gland: PA: with bend protection, grey
- Seal: Perbunan (NBR)
- Cable: PVC: grey, x 0.75mm², Ø ~ 6.2mm, shielded, largely resistant to oils/petroleum products
- Type label: Polyester: silver, black printing

**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.
Terminology:
- $L$ = Length between process connections
- $M$ = Measuring length (indication length) of level indicator
- $M_{el.}$ = Measuring length of transmitter
- $C1$ = Bottom float extension
- $C2$ = Top float extension
- $X$ = Initiating point of transmitter

Transmitter length:
- Type -K and -O magnetic level indicators:
  - $M_{el.} = M = L$ or $M_{el.} = \text{according to customer order (<M)}$
- Type -A and -B magnetic level indicators:
  - $M_{el.} = M$ or $M_{el.} = \text{according to customer order (<M)}$

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 > $M$.

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.