Transmitter 2-wire, intrinsically safe
II 2 G Ex ia IIC T4 Gb II 2 D Ex ia IIC T115°C Type 32607-NI-xx

Function: Intrinsically safe transmitter with ATEX/IECEx certificate for use with WEKA VLI for 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 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 transmitter must be connected with a certified energy limiting device (e.g. Zener barrier) installed in a safe area. This device guarantees the electrical limit values specified below, including the cable. The metal housing of the transmitter must be connected to protection ground.

Certificate

Dimensions

Internal circuit

External electrical connections

Product code: 32607-NI-10 10mm resolution
For details see page 2
32607-NI-05 5mm resolution
M el. = Measuring length in mm

Resolution
32607-NI-10 10mm
32607-NI-05 5mm

Transmitter tube dia.
Ø 14 / 10 Ø 17 / 14

Measuring length "M el."
200mm (min.) ... 4000mm (max.)

Supply voltage
14VDC ... 30VDC

Operating temperatures
<table>
<thead>
<tr>
<th>Media temperature</th>
<th>Ambient temperature</th>
<th>Temperature class</th>
</tr>
</thead>
<tbody>
<tr>
<td>-50°C...+150°C</td>
<td>-50°C...+50°C</td>
<td>T4 (115°C)</td>
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</table>

For dust explosion hazardous areas (D) the media temperature has to be considered instead of the surface temperature.

Enclosure IP68 - 10bar (EN60529)
Transmitter 2-wire, intrinsically safe
Type 32607-NI-xx

Signal output
4…20mA current loop

Output load (including energy limiting device and cables)
max. 100Ohm at 14VDC
max. 900Ohm at 30VDC

Materials
Housing tube Stainless steel 316 / 316L
Cable gland Brass, nickel-plated
- Seal PA / NBR
Cable (Standard 5m) Silicone, red, 2 x 0.5mm², Ø ~5.9mm, largely resistant to oils/petroleum products, halogen-free
Type label Stainless steel, lasered

Electrical limit values
Umax = 31VDC
Imax = 25mA

Safety related limit values
Ui = max. 30,8V
li = max. 130mA
Pi = max. 790mW
Ci = max. 49nF
Li = 0mH

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 relevant certificates are available at www.weka-ag.ch These information has to be considered additionally.