Flameproof Liquid Level Sensor

Key features:

- Analog Output/ Digital Output (RS485)
- To use with flammable liquid, e.g. gasoline, oil
- Flameproof type: Ex d II CT 6 Ga/Gb
- No electrical part in sensing area

Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL-E1</td>
<td>Analog output: 0.5~4.5V</td>
</tr>
<tr>
<td></td>
<td>Digital Output: RS485</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Accuracy</th>
<th>Repeatability</th>
<th>Detection Length</th>
<th>Applicable liquid density</th>
<th>Power supply voltage</th>
<th>Operating temperature range</th>
<th>Storage temperature range</th>
<th>Power consumption</th>
<th>Explosion proof grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>± 1mm</td>
<td>± 5mm</td>
<td>± 5mm</td>
<td>0.45m ~ 2.3m below flange</td>
<td>Min 0.6</td>
<td>DC12V~ DC24V ±10%</td>
<td>-20°C ~ 70°C</td>
<td>-20°C ~ 70°C</td>
<td>Max 100mA</td>
<td>Ex d II CT 6 Ga/Gb (Expected: March 2018)</td>
</tr>
</tbody>
</table>

Materials:

- Flange: SUS304
- Shaft: Aluminum
- Body: Aluminum
- Float: NBR/PF

Mechanism:

As the float moves up or down, the shaft rotates in angle that reflects the position of the float. Magnet also rotates accordingly to the rotation of the shaft. The magnetic IC then reads from the angle that the magnet turns, and converts it to analog output of the liquid level.

Output:

- DC15~14V
- 0Ω~20mA

Materials:

- Flange: SUS304
- Shaft: Aluminum
- Body: Aluminum
- Float: NBR/PF