MODEL CE  CABLE SUSPENDED ELECTRODE LEVEL SENSOR

Features
- Easy to install for the large tanks or vessels
- 20 meter Max. cable length
- Switch points easily adjusted in field
- Up to 6 detection points

General Description
The CE is designed for use in large tanks or vessel where the FE series cannot be used due to the limitation of electrode length. Used in conjunction with one or more RE7000 relays, the CE can reliably detect up to 6 separate levels in tanks up to 20 meter deep. The PVC body, the PVC cable, and selectable electrodes are compatible with a wide range of liquids. The material of electrode is selected from 316SS, NW0001.0665, NW0276, and Titanium for the chemical compatibility. If necessary, alternative SCM cable is available.

Electrode Selection

<table>
<thead>
<tr>
<th>Material</th>
<th>Single Point</th>
<th>Multiple Point</th>
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<tbody>
<tr>
<td>316SS</td>
<td>CE-5</td>
<td>CE55</td>
</tr>
<tr>
<td>NW0001.0665*</td>
<td>CE-6</td>
<td>CE66</td>
</tr>
<tr>
<td>NW0276**</td>
<td>CE-7</td>
<td>CE77</td>
</tr>
<tr>
<td>Titanium</td>
<td>CE-8</td>
<td>CE88</td>
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* NW0001.0665 is equivalent with HastelloyB®
** NW0276 is equivalent with HastelloyC®

Application
The CE series can be used in any suitable conductive liquids. Applications involve both alarm point detection and pump valve control. Since the CE series contain no moving parts, it is very reliable and can be used in tanks where mixers or other moving equipment would damage ordinary float sensor or other level detector. The CE series consist of cable, body, and electrode, and electrode is electrically insulated by the cable and body. Therefore, CE can be installed at the slop wall and through the pipe.

Operational Description
When the tips of electrode are touched by the conductive liquids, the current is passed between electrodes. When the liquid level is decreased from the point of electrodes, the current is not passed between electrodes. The relay is opened or closed by the block or unblock of current.
Specifications

**Model**: CE series

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<td>![Drawing Image]</td>
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- **Operating Temperature**: -20 to 50°C
- **Maximum Pressure**: 200 kPa
- **Cable Length**: 6 meter (Max. 20 meter)
- **Material**:
  - **Cable**: 6.5, PVC
  - **Body**: PVC
  - **Electrode**: 316SS, NW00010665 (Hastelloy B** equivalent), NW0276 (Hastelloy C** equivalent), Titanium
  - **Housing**: ABS
  - **Flange**: PVC
  - **Weight**: PVC
  - **Rope**: PE
- **Mounting**: JIS10K100A (4 holes)
- **Cable Entry**: G3/4
- **Protection**: IP45
- **Maximum Detection Points**: 6

*1 Hastelloy is registered name of manufacturer.
*2 IP65 is optionally available.

Specifications

**Model**: RE7000

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- **Supply Power**: 90 to 132V/180 to 264V AC, 50/60Hz
- **Power Consumption**: Approx. 1.5VA Max.
- **Relay Contact**: 1 SPDT, 240V 5A AC, 30V 5A DC (Resistive)
- **Power Source**: 8V 5mA AC
- **Operating Resistance**: 4 kΩ or less
- **Release Resistance**: 15 kΩ or more
- **Operating Temperature**: 0 to 50°C
- **Operating Humidity**: 85%RH Max.
- **Indication**: Green LED for power states, Red LED for relay states
- **Separation Distance**: 1km Max.
  - Use CVV-S 0.75mm² cable
- **Mounting**: 11-pin base, plug-in type

Base is optional and must be ordered separately.