Simple Apparatus Safety Instructions

Electrical Indicators
8200 Series
Simple Apparatus – Electrical Indicators – 8200 series

These electrical indicators (8200) are classified as “Simple Apparatus” when used in Intrinsically Safe circuits. They comply with the requirements of EN50014:1997, General Requirements and EN50020:2002, clause 5.4 ‘Simple Apparatus’, and are not considered as a potential source of ignition for an explosive atmosphere.

They do not fulfill the definition of equipment in Article 1 (3) of Directive 94/9/EC (Equipment Explosive Atmospheres (ATEX)); the 8200 is therefore outside the scope of this Directive, and does not have a Declaration of Conformity or CE mark related to this Directive.

When used as “Simple Apparatus” within a hazardous atmosphere, the following should be noted:

1. The product should be installed by suitably trained personnel, in accordance with the applicable code of practice.

2. As the product has no source of internal heating, the temperature classification is dependent on the ambient air temperature and the temperature classification of the panel that the 8200 is fixed on.

3. Materials of construction:
   - Enclosure: Polyester
   - Window: Polycarbonate
   
   If the equipment is likely to come into contact with aggressive substances, it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

   **Aggressive substances:** e.g. acidic liquids or gases that may attack metals or solvents that may affect polymeric materials.

   **Suitable precautions:** e.g. regular checks as part of routine inspections or establishing from the material’s data sheet that it is resistant to specific chemicals.

   **Note:** Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of the 8200 may generate an ignition-capable level of electrostatic charge. Therefore, when they are used for applications that specifically require group II, category 1 equipment, the 8200 shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the 8200 shall only be cleaned with a damp cloth.

4. Technical Data:

   **(a) Input parameters:**

<table>
<thead>
<tr>
<th>Ui</th>
<th>li</th>
<th>Li</th>
<th>Ci</th>
<th>Pi</th>
<th>Ri</th>
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<td>0-1mA</td>
<td>28V</td>
<td>85mA</td>
<td>5mH</td>
<td>0μF</td>
<td>0.6W</td>
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<td>45μH</td>
<td>0μF</td>
<td>0.65W</td>
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<tr>
<td>4-20mA</td>
<td>28V</td>
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<td>9.6μH</td>
<td>0μF</td>
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