Technical Safety Information for the User

This description contains the necessary information for the correct application of the product described below. It is intended for use by technically qualified personal.

Qualified personnel are persons who, because of their training, experience and position as well as their knowledge of appropriate standards, regulations, health and safety requirements and working conditions, are authorised to be responsible for the safety of the equipment, at all times, whilst carrying out their normal duties and are therefore aware of, and can report, possible hazards (Definition of qualified employees according to IEC 364)

Safety Instructions

The following instructions are provided for the personal safety of operators and also for the protection of the described product and connected equipment.

Warning!
Hazardous Voltage
Failure to observe can kill, cause serious injury or damage

- Isolate from mains before installation or dismantling work, as well as for fuse changes or post installation modifications.
- Observe the prescribed accident prevention and safety rules for the specific application.
- Before putting into operation check if the rated voltage for the unit conforms with the local supply voltage.
- Emergency stop devices must be provided for all applications. Operation of the emergency stop must inhibit any further uncontrolled operation.
- Electrical connections must be covered
- The earth connection must be checked, for correct function, after installation.
- After switching off the unit, some internal components will still be charged due to capacitance.
- Before opening the unit wait at least five minutes to allow capacitors to discharge.

Specified Use

The units described herein are electrical controllers for installation in industrial plant. They are designed for power adjustment on vibratory feed equipment.

The units conform to the directive 2004/108/EC
EMC-Directive

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1.0 General

The sensors, which are covered in this description, are used for measuring low frequency amplitude in the range of 0...35 g.

Inside the unit there is a piezo electric amplitude element connected to an amplifier. The amplitude is detected by the piezo element which generates a proportional voltage which is converted into a usable signal of 300 / 600 / 2000 mV/g by the amplifier.

The components are built into a robust, aluminium housing and are completely epoxy-sealed. Electrical connections are brought out on a four-core, screened cable. The screen is earthed at the control unit end. The reference point (ground), of the operating voltage, is earthed to the suppression circuit inside the sensor housing.

2.0 Applications

- Machine protection
- Measurement of mechanical vibration
- Amplitude monitoring i.e. safety braking

3.0 Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating voltage</th>
<th>Output voltage</th>
<th>Measurement range</th>
<th>Operating temperature</th>
<th>Output current</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW 07</td>
<td>+24VDC</td>
<td>100 / 300 / 600 / 2000 mV / g</td>
<td>0...35 g (frequency dependent)</td>
<td>0...+45 °C</td>
<td>2 mA</td>
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</table>

4.0 Type summary

<table>
<thead>
<tr>
<th>ID-Nr.</th>
<th>Type</th>
<th>Signal mV/g</th>
<th>Frequency-range (Hz)</th>
<th>Connection</th>
<th>Wire length (m)</th>
<th>Protection</th>
<th>Housing</th>
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<tbody>
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<td>045707</td>
<td>SW 07</td>
<td>300</td>
<td>30...150</td>
<td>wire, open ends</td>
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<td>IP 65</td>
<td>Alu- pressure</td>
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<td>IP 65</td>
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<td>IP 65</td>
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<td>SW 42</td>
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<td>10...60</td>
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<td>IP 65</td>
<td>Alu- pressure</td>
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<td>SW 61</td>
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<td>60...250</td>
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<td>IP 54</td>
<td>Alu- grouting</td>
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<td>60...250</td>
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<td>Alu- grouting</td>
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<td>30...150</td>
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<td>30...150</td>
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<td>30...150</td>
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<td>IP 54</td>
<td>Alu- grouting</td>
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<td>10...60</td>
<td>wire, open ends</td>
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<td>IP 54</td>
<td>Alu- grouting</td>
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<td>600</td>
<td>10...60</td>
<td>wire, open ends</td>
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<td>IP 54</td>
<td>Alu- grouting</td>
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<td>600</td>
<td>10...60</td>
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<td>IP 54</td>
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<td>10...60</td>
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<td>plug M12, 4 pol.</td>
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<td>2000</td>
<td>5...20</td>
<td>wire, open ends</td>
<td>10</td>
<td>IP 54</td>
<td>Alu- grouting</td>
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</tbody>
</table>
5.0 Connections and Dimensions

- **IP 54 (Alu-grouting)**
  - Diagram showing connections and dimensions

- **IP 65 (Alu-pressure)**
  - Diagram showing connections and dimensions

6.0 Installation of Accelerometer

- Diagram showing installation of accelerometer

The sensor cable needs to be fixed with a cable clamp to avoid damage of the cable.
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