**Proper Environment**
- Protection class: IP 65 (only with sensor cable connected)
- Lenses are excluded from protection class. Contamination of the lenses leads to impairment or failure of the function.
- Operating temperature: 0 °C / −30 °C to + 120 °C
- Storage temperature: −20 °C / −40 °C to + 158 °C
- Ambient pressure: Atmospheric pressure

**Dimensional Drawing and Free Space, Measuring Ranges 20/200/200BL**

<table>
<thead>
<tr>
<th>Measuring Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>20/200/200BL</td>
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</tbody>
</table>

**Power Supply**
- Power supply (11 ... 30 VDC)
- Use power supply only for measurement devices. MICRO-EPSON recommends the use of the optionally available power supply PS5200 for the sensor.

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 VDC</td>
<td>Power supply (11 ... 30 VDC)</td>
</tr>
<tr>
<td>24 VDC</td>
<td>Power supply (11 ... 30 VDC)</td>
</tr>
<tr>
<td>30 VDC</td>
<td>Power supply (11 ... 30 VDC)</td>
</tr>
</tbody>
</table>

**Switching Inputs Laser On/Off, Setting Masters and Mid-point**

**Proper Use**
The optoNCDT 1700 is designed for use in industrial areas. It is used for measuring displacement, distance, position and orientation in process quality control and dimensional testing. The sensor may only be operated within the limits specified in the technical data, instruction manual, Chap. 3.4. The sensor should only be used in such a way that in case of malfunctions or failure personnel or machinery are not endangered. Additional precautions for safety and damage prevention must be taken for safety-related applications.

**Warnings**
- Connect the power supply in accordance to the safety regulations for electrical equipment. The power supply must match the specified limits.
- Avoid shock and vibration to the sensor. Protect sensor cable against damage.
- Avoid continuous exposure to spray on the sensor. Avoid exposure to aggressive materials (washing agent, penetrating liquids or similar) on the sensor. Mount the sensor only to the existing holes on a flat surface. Clamps of any kind are not permitted.
- Avoid shock and vibration to the sensor. Protect sensor cable against damage.
- Avoid damage to or destruction of the system, failure of the measuring device.

**OptoNCDT1700**

**Dimensions in mm (inches), not to scale**

- MR = Measuring range
- SMR = Start of measuring range
- MRR = Midrange
- EMR = End of measuring range
- Dimensions in mm (inches), not to scale

**Key**
- Characteristics: 0 = Linear, 4 = Flex, 8 = Circle, 12 = Sine
- Note: 0 = Characteristic is not available

**Power Supply**
- Power supply (11 ... 30 VDC)
- Use power supply only for measurement devices. MICRO-EPSON recommends the use of the optionally available power supply PS5200 for the sensor.
**Quick Guide**

**Components, Typical Application with Analog Output**

**Components, Typical Application with RS422 and IF2008**

**Switching on the Power Supply Respectively PC**

**Switching Outputs**

To reset the short-circuit protection:

- Clear the external short circuit, when the target is outside the measuring range.

You can find more information about the sensor in the instruction manual. You can find this online at www.micro-epsilon.de/download/manuals/man-optoNCDT-1700-en.pdf or on the delivered CD.