The accelerator switch ROTONDO is qualified as throttle-unit for electrically driven vehicles. The special design allows a single-sided use, with only one handle and a short shaft. As another option we can offer a continuous shaft with two handles. The desired speed will be output as an analogue signal, the two direction-signals and the zero-position-signal as a digital signal.

- Different axis-variations
- Two digital signals
- Optional one zero-position-signal possible
- Digital signals are available as high or low active one
- Optional internal potentiometer power supply with 5 V
- Protection class IP 54
Accelerator Switch

### Technical Specifications

#### Mechanical Specifications
- **Dimensions**: See at the drawing
- **Mechanical movement**: 2 x 45°
- **Actuation**: Square-axis
- **Contact system**: Cable with 8-pin Molex Mini-Fit, Jr.™

#### Electrical Specifications
- **Operating voltage**: 24 VDC (16.5 to 32 VDC)
- **Power consumption**: < 20 mA
- **Power supply voltage potentiometer**: 12 V max.
- **Resistance channel potentiometer**: 5.875 kΩ
- **Max. current analogue output**: 0.5 mA
- **Digital signal**: Transistor with open-collector
  - Output Voltage max.: 35 VDC
  - Current max.: 10 mA

#### Operating Conditions
- **Operating temperature**: -30°C to +50°C
- **Life time**: 2,000,000 cycles
- **Vibration test**: DIN EN 60068-2-6/27/29
- **Electro-magnetic compatibility**: DIN EN 12895
- **Protection class (DIN EN 60529)**: IP 54 (except connector)

### Connector Pin Assignment Molex Mini-Fit, Jr.™

<table>
<thead>
<tr>
<th>PIN</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GND</td>
</tr>
<tr>
<td>2</td>
<td>Supply voltage (+ 24 V)</td>
</tr>
<tr>
<td>3</td>
<td>Digital signal – direction 1</td>
</tr>
<tr>
<td>4</td>
<td>Digital signal – direction 2</td>
</tr>
<tr>
<td>5</td>
<td>Analogue output (desired value)</td>
</tr>
<tr>
<td>6</td>
<td>U₀ potentiometer</td>
</tr>
<tr>
<td>7</td>
<td>GND potentiometer</td>
</tr>
<tr>
<td>8</td>
<td>Optional</td>
</tr>
</tbody>
</table>

### Connecting Diagram

#### Continuous Axis

1. **GND**
2. +24V →
3. **FR1**
4. **FR2**
5. **Null (optional)**
6. **Null (optional)**
7. **Null (optional)**
8. **Null (optional)**

#### Single-Sided Axis

1. **GND**
2. +24V →
3. **FR1**
4. **FR2**
5. **Null (optional)**
6. **Null (optional)**
7. **Null (optional)**
8. **Null (optional)**