Tamper resistant, wear-free access protection – with a wide range for installation and utilization

COMPACT NON-CONTACT RFID SAFETY SENSORS

Non-contacting, transponder-coded safety sensors are outstanding for monitoring guard doors/safety flaps. Since the passive RFID transponder is uniquely identified by the sensor, high coding levels and high bypass protection can be implemented. The BID R02K is ideal especially in environments where high levels of dust or contamination are expected.

The large operating range of the sensors makes them insensitive to vibration and mechanical play on the safety guard, for example, when doors settle or are poorly aligned. The large operating range also simplifies your installation. The compact size offers you greater flexibility for integrating the device into your application.

It’s easy to use the devices in applications up to PLe and SIL 3 thanks to the integrated safety logic and the OSSD output stage.

Features

- Tamper-resistant RFID operating principle available with low or high coding levels
- Anti-vibration and insensitive to contamination with non-contacting operating principle
- Large operating distance for simple, time-saving installation
- Standardized M12 (5-pin) connection technology saves cost
- Suitable for direct connection to Balluff safe IO-Link I/O module or other safety controllers
SAFETY SENSORS

<table>
<thead>
<tr>
<th>BID0008</th>
<th>BID0009</th>
<th>BID000U</th>
<th>BID000W</th>
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</thead>
<tbody>
<tr>
<td>Operating principle</td>
<td>RFID Safety Sensors</td>
<td>RFID Safety Sensors</td>
<td>RFID Transponders</td>
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<tr>
<td>Coding level</td>
<td>low</td>
<td>high</td>
<td>high</td>
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<tr>
<td>Performance Level/SIL</td>
<td>e/3</td>
<td>e/3</td>
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<td>Safety category</td>
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<tr>
<td>Degree of protection</td>
<td>IP65/IP67</td>
<td>IP65/IP67</td>
<td>IP65/IP67</td>
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<tr>
<td>Switching outputs</td>
<td>2 × OSSD</td>
<td>2 × OSSD</td>
<td>2 × OSSD</td>
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<tr>
<td>Ambient temperature</td>
<td>–25…+65 °C</td>
<td>–25…+65 °C</td>
<td>–25…+65 °C</td>
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<tr>
<td>Material housing</td>
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<td>Thermoplastic</td>
<td>Thermoplastic</td>
</tr>
<tr>
<td>Connection</td>
<td>Cable with connector M12, 5 pin, A codiert</td>
<td>Cable with connector M12, 5 pin, A codiert</td>
<td>Cable with connector M12, 5 pin, A codiert</td>
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</table>

CONNECTOR

<table>
<thead>
<tr>
<th>BCC0H1E</th>
<th>BCC0H1F</th>
<th>BCC0H1L</th>
<th>BCC0H1M</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
<td>M12 female straight, 5 pin/ M12 male straight, 4 pin, 2 m Cable</td>
<td>M12 female straight, 5 pin/ M12 male straight, 4 pin, 5 m Cable</td>
<td>M12 female straight, 5 pin/ M12 male right-Angled, 4 pin, 2 m Cable</td>
</tr>
</tbody>
</table>

SERVICES

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