

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

## COMPACT NON-CONTACT RFID SAFETY SENSORS

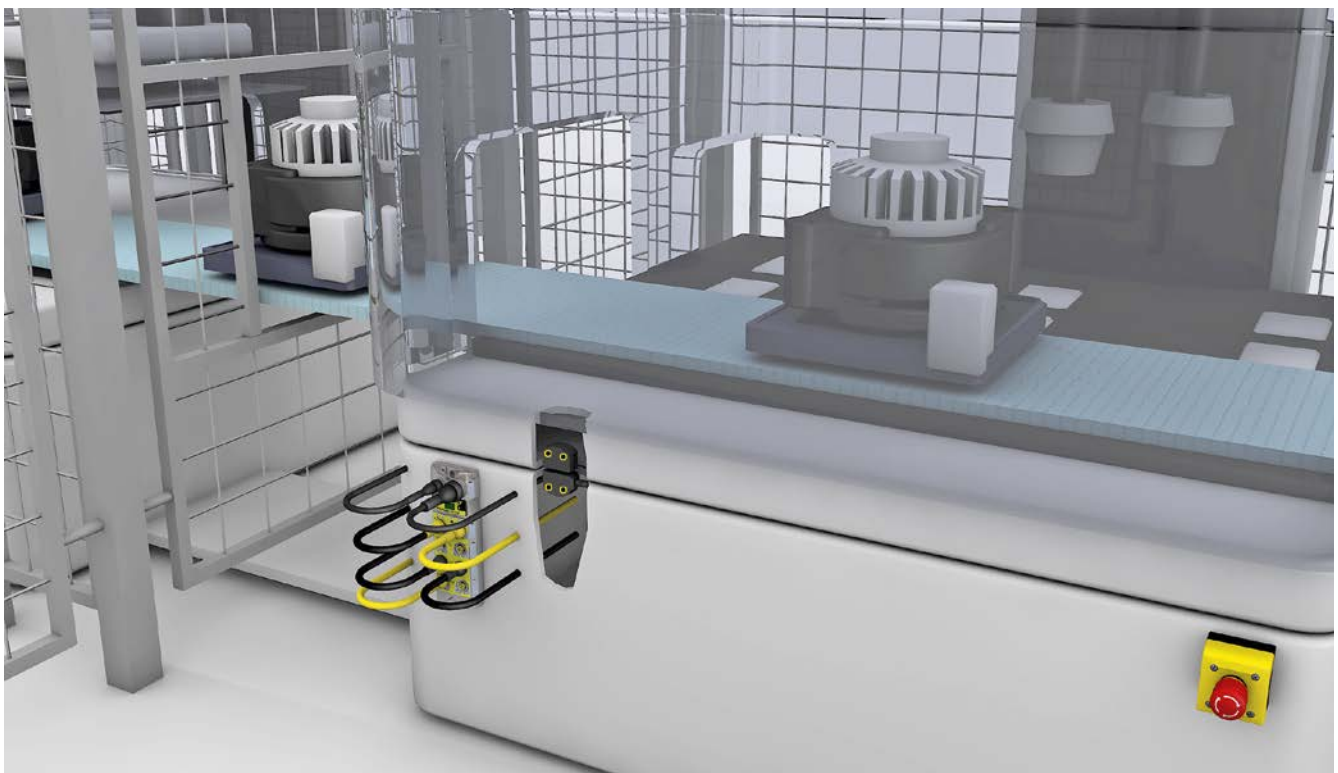
Non-contacting, transponder-coded safety sensors are outstanding for monitoring guard doors/safety flaps. Since the passive RFID transponder is uniquely identified by the sensor, high coding levels and high bypass protection can be implemented. The BID R02K is ideal especially in environments where high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



	BID0008	BID0009	BID000U	BID000W
Operating principle	RFID Safety Sensors	RFID Safety Sensors	RFID Transponders	RFID Transponders
Coding level	low	high		
Performance Level/SIL	e/3	e/3		
Safety category	4	4		
Degree of protection	IP65/IP67	IP65/IP67		
Switching outputs	2 × OSSD	2 × OSSD		
Ambient temperature	-25...+65 °C	-25...+65 °C	-25...+65 °C	-25...+65 °C
Material housing	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
Connection	25 cm cable PVC with M12 connector, 5-pin, A-coded	25 cm cable PVC with M12 connector, 5-pin, A-coded		

## ACCESSORIES



	BAM0307	BAM0309
Type	Sealing Kit for BID R02K to seal the mounting holes <ul style="list-style-type: none"> <li>■ 4 flat pieces: for flush finish (one-way) and flat screws – suitable as tampering protection for the screw fixing</li> <li>■ 4 with boarder: with boarder for high screw heads</li> </ul>	Mounting Kit for BID R02K for mounting sensor and actuator <ul style="list-style-type: none"> <li>■ 4 ferrules: for insertion to secure the screw fixings to the mounting surface for applications with regular high temperature variations</li> <li>■ 2 mounting plates: for mounting on non-linear stable basis e.g. on groove rails/profiles</li> </ul>

## CONNECTOR



1 M CABLE	BCC05LU	BCC05NY
2 M CABLE	BCC05LY	BCC05P0
5 M CABLE	BCC05M1	BCC05P2
Type	M12 female straight, 5 pin/ M12 male straight, 4 pin,	M12 female straight, 5 pin/ M12 male right-angle, 4 pin,