

**Quick, Reliable, and Tamper-proof machine safety solution**

## NON-CONTACT RFID SAFETY GUARD LOCKING

Non-contact, coded transponder safety guard locks are ideal for securing and safely monitoring guard doors and safety flaps to protect persons from potential hazards or prevent interruption of processes. A selectable latching force of 25 N or 50 N makes the guard lock insensitive to vibration even when unlocked.

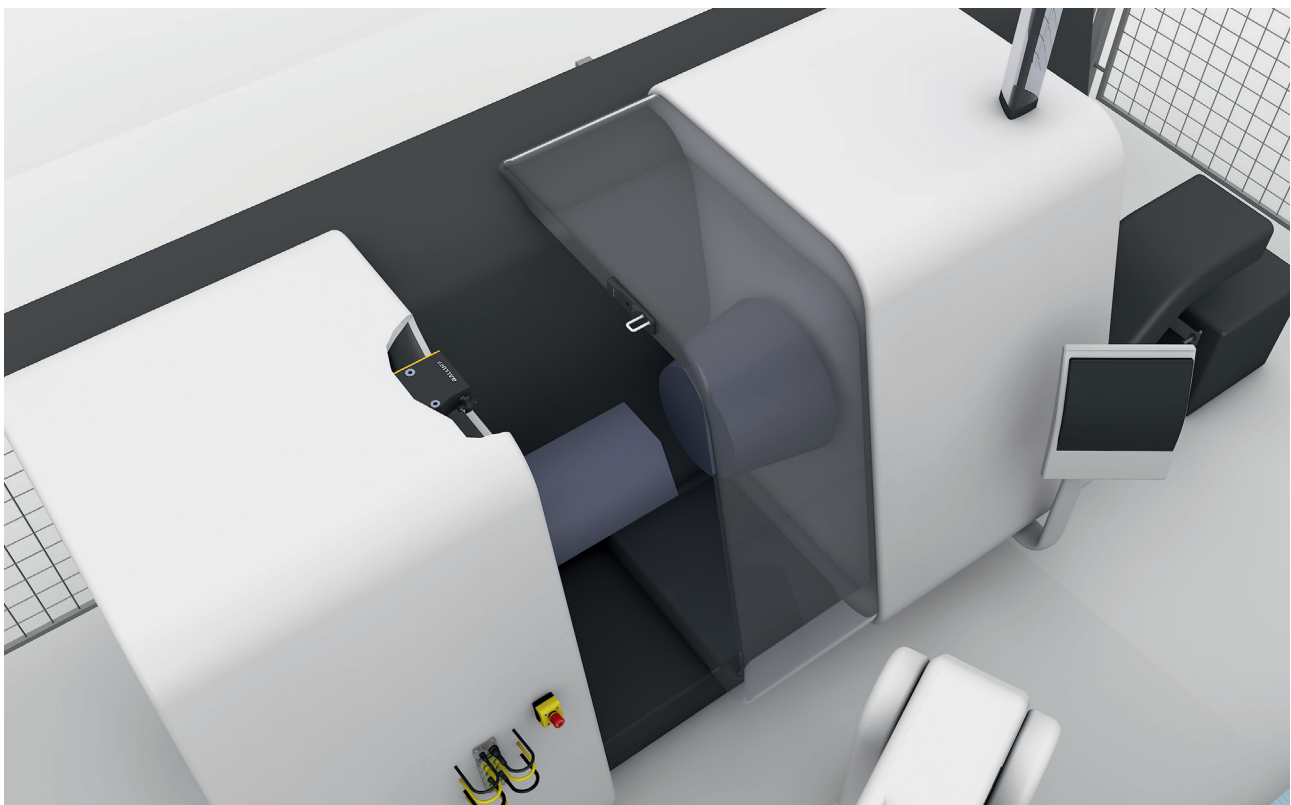
The high coding level with RFID technology that couples sensor and actuator with unique code offers outstanding tamper-proof protection.

The compact form factor, high protection rating of IP69, and the ability to use the guard lock as a mechanical door stop provides additional flexibility and simplifies integration. The integrated safety processing electronics and the OSSD outputs enable

use of this device in applications requiring PLe and SIL 3 ratings. The BID Z01K safety guard lock is ideal, especially in environments where contamination or dust is expected.

### Features

- Tamper-proof RFID technology based monitoring
- Access control integrated with process safety through guard locking function
- Insensitive to vibrations even when unlocked
- Standard M12 (8-pin) connector based devices for ease of connectivity
- Ideally suited for Balluff IO-Link Safety hub's 8-pin ports
- Suitable for connecting to other controllers



RFID GUARD  
LOCKING DEVICE



	BID0011	BID0012	BID0013	BID0010
Operating principal	RFID Guard Locking Device	RFID Guard Locking Device	RFID Guard Locking Device	RFID Transponder
Coding level	High	High	High	
Guard locking principal	Spring force (power to unlock)	Magnetic force (power to lock)	Spring force (power to unlock)	
Holding force	1000 N	1000 N	1000 N	
Emergency release	No	No	Yes	
Performance Level/SIL	e/3	e/3	e/3	
Safety category	4	4	4	
Switching outputs	2 × OSSD	2 × OSSD	2 × OSSD	
Safety inputs	2	2	2	
Degree of protection IEC 60529	IP69/IP67/IP66	IP69/IP67/IP66	IP69/IP67/IP66	
Ambient temperature	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C
Material housing	Fiber-glass reinforced thermoplastic	Fiber-glass reinforced thermoplastic	Fiber-glass reinforced thermoplastic	Fiber-glass reinforced thermoplastic
Connection	M12 connector, 8-pin, A-coded	M12 connector, 8-pin, A-coded	M12 connector, 8-pin, A-coded	

ACCESSORIES



	BAM030A	BAM030F	BAM030E	BAM030C
Type	Mounting plate for guard locking device for flush door frame installation	Lockout tag to avoid actuation of the guard locking device – to prevent unintentional guard closing, e.g. during maintenance	Triangular key to activate the auxiliary release of the BID Z01K guard locking devices with emergency release	Transponder mounting kit for glass and macrolon guards

CONNECTOR



	BCC0H25	BCC0H2A
Type	M12 female straight/ M12 male straight, 8 pin, 2 m Cable	M12 female straight/ M12 male right-angle, 8 pin, 2 m Cable