SensaGuard RFID
Non-Contact Safety Switches

Versatile machine guarding solution with RFID technology

Features and Benefits

- Types: RFID standard (low) and unique (high) coded for tamper resistant operation
- 10 mm to 25 mm sensing range (depending on model) helps compensate for door misalignment
- Switches can be connected in series and maintain PLe, Cat 4, SIL 3 rating (8-pin only)
- Flat pack and barrel (plastic and stainless steel) housing styles suit a variety of applications
- IP69K wash-down rated
- Standard, magnetic hold, and integrated latch versions accommodate different types of mounting profiles
- Optional magnetic hold feature aids door stability and reduces nuisance tripping
- LED offers diagnostics for switch status and fault finding (margin indication offered on some models)
- M12, 5- or 8-pin quick connect pigtail speeds up installation

SensaGuard RFID non-contact switches family

When it comes to machine safety, Rockwell Automation knows that protection of personnel and equipment is your main concern. At the same time, flexibility and productivity are points that must also be considered as you design your safety system. Optimize all these with the Allen-Bradley® SensaGuard™ family of non-contact switches.

Featuring RFID technology for coding, inductive technology for sensing and combining a large sensing range (10 mm to 25 mm) with optimal operation and a generous tolerance to misalignment, SensaGuard switches offer a cost-effective solution that is ideally suited to a wide range of safety applications. Intended for use with all types of guard doors, these versatile switches are TüV certified up to Cat 4, SIL 3, PLe and can be connected in series with other devices such as light curtains, E-stops and key interlocks.

For application flexibility the SensaGuard switches are offered in IP69K rated rectangular flat pack, plastic and stainless-steel barrel (18 mm and 30 mm) housings. The stainless-steel model is ideal for use in harsh environments or high-pressure wash-down applications typically found in the food and beverage industries. Standard, magnetic hold, and integrated latch versions are available to accommodate different types of mounting profiles. An optional magnetic hold feature aids door stability and reduces nuisance tripping. To simplify testing and maintenance, an LED offers diagnostics for switch status and fault finding (margin indication offered on some models). A timesaving M12, 5- or 8-pin quick connect pigtail is offered along with a variety of mounting options.

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Product Selection

To build a catalog number, select specs from tables a, b, c and d.

440N-Z21 __ __ __ __
        a   b   c   d

SensaGuard Family Line	
Code	**Description**
440N-Z21	Non-contact switch

a

Coding	
Code	**Description**
S	Standard (low) coding
U	Unique (high) coding

b

Housing		
	Code	**Description**
	16	Plastic barrel, 18 mm actuator
	17	Stainless-steel barrel, 18 mm actuator
	26	Plastic barrel, 30 mm actuator
	S2	Large plastic rectangle flat pack with actuator
	S3P	Integrated latch with actuator

c

Connector/Cable Type	
Code	**Description**
A	3 m cable
B	10 m cable
H	M12, 8-pin quick connect
J	M12, 5-pin quick connect

d

Margin Indication	
Code	**Description**
N*	Margin indication
N9*	Margin indication and magnet

* Options N and N9 can be ordered only with S2 from Table b.

Connection Systems

Description	Catalog Number
8-pin cordset	889D-F8AB-*
8-pin patchcord	889D-F8ABDM-◊
Safety wired distribution box, 4-port	898D-P84RT-M19
Safety wired t-port	898D-438Y-D8
Safety wired shorting plug, 4-pin	898D-41KU-DM
4-pin patchcord	889D-F4ACDM-◊
5-pin cordset	889D-F5AC-*

* Replace symbol with 2 (2 m), 5 (5 m), or 10 (10 m) for standard cable lengths.
◊ Replace symbol with 1 (1 m), 2 (2 m), 3 (3 m), 5 (5 m), or 10 (10 m) for standard cable lengths.

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