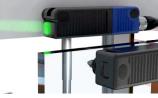
S SCHMERSAL Tech Briefs: **RSS36 RFID Safety Sensor**



Features

3 Color LED Display



Green: Power, not actuated



Yellow: Actuation



Red: (Flashing) Diagnostic error



Flashing yellow LED signals actuator near switching distance limit.

Overview

The RSS36 uses radio frequency identification (RFID) to detect the actuator and indicate a closed guard. This non-contact operating principle limits wear on components and tolerates misalignments.

The RSS36 is also difficult to by-pass because it has the option of individual coding: The basic version of the sensor responds to any RSS36 target actuator; The "I1" version only accepts the coded ID number of the specific target actuator which is taught in during the first start-up; The "I2" version allows the teach-in process to be repeated, allowing replacement of a lost or damaged actuator. The I1 and I2 options also fulfill the High level coding requirements of ISO 14119.

The RSS36 also features all of the diagnostic advantages of our Pulse Echo sensors. With continuous internal function tests and monitoring of the safety outputs, RSS36 sensors can be wired in series without detriment to the safety levels. The RSS36 comes standard with diagnostic LED's on the sensor to indicate various errors, mis-alignment and door open/closed signaling. For more advanced indication the RSS36 is also available with serial diagnostics.

The RSS36 housing is made of ECOLAB approved materials and is sealed to IP69K standards – a viable solution for use in hygienic environments where high temperature and high pressure wash downs are typical.

The RSS36 also offers a magnetic latch option which provides a holding force of 5 lbs. The RSS36 can be used as a door stop for small to medium sized guard doors.

The RSS36 sensors meet stringent North American and European Standards, are cULus and CE approved, and can be used in the highest level of machine safety circuits, PLe to ISO13849-1 and SIL 3 to IEC61508.

Individual Actuator Coding

Every RST36 actuator has a unique "serial number" code.

Standard coding: The sensor will recognize the RFID coding of any RST36 actuator.

11 Coding: During the set-up, the sensor is taught to recognize the individual coding of a specific RST36 actuator. Thereafter, any other RST36 actuator is permanently excluded / ignored.

12 Coding: This version allows for the teach-in process to be repeated to replace an actuator. The previous code is overwritten, so any RST36 actuator not taught in is excluded / ignored. The replacement teaching process includes a 10 minute delay in returning the machine to service, as a tampering deterrent.



Ordering Details

RSS360-2-3-ST

① Actuator Coding blank Standard version (no coding)

11 Individual coding (single)

12 Individual coding (multiple)

② Outputs

Diagnostic output

SD Serial Diagnostic

3 Magnetic Latching blank no latching

R with magnetic latching (18N)

Accessories

Actuator

RST-36-1 Standard actuator RST-36-1-R Actuator with latching RST-U-2 Compact actuator RST16-1 Flat actuator

Mounting / Spacers

ACC RSS36-SK Mounting hole seals

Connector cables

M12, 8 pole connectors

101210560 5 m length (IP69K) 103001389 10 m length (IP69K)

103011411 2.5 m length (IP67) 103011412 5 m length (IP67) 103011413 10 m length (IP67)

Compatible Safety Controllers

SRB-E-201LC SRB-E-322ST SRB-E-201ST SRB-E-402ST SRB-E-301ST

SRB-E-212ST SRB-301MC

Bold part numbers are regularly stocked

Applications

- Food processing machinery
- Pharmaceutical machinery Medical applications
- Material handling systems
- Packaging machinery
- Chemical processing equipment
- Robot cells
- Folding or brake presses Filter presses
- Punching machines Printing machines
- Injection molding
- Palletizers
- Packaging equipment

Available Literature



Electronic Safety Sensors and Solenoid Interlocks Catalog

Contact

Schmersal Nordiska AB

Västra Frölunda Tel: +46 31 338 35 00 E-mail: info-se@schmersal.com

Schmersal Norge

Drammen Tel: +47 22 06 00 70

E-Mail: info-no@schmersal.com

Schmersal Danmark AS

Hvidovre

Tel: +45 70 20 90 27

E-Mail: info-dk@schmersal.com