

RS Safety Interlock Switches



Contents

Description

Page

RS Safety Interlock Switches	
Catalog Number Selection	V8-T1-16
Product Selection	V8-T1-16
Recommended Logic Interfaces	V8-T1-18
Accessories	V8-T1-18
Technical Data and Specifications	V8-T1-19
Mounting Instructions	V8-T1-20
Dimensions	V8-T1-21

RS Safety Interlock Switches

Product Description

Eaton’s RS safety interlock switches have been specifically designed for monitoring of protective guards, such as doors, flaps and hoods. All switches in this family are safety-rated and use magnetically coded actuators to minimize defeat by simple magnets. With correct installation, the RS family complies with EN ISO 13849-1 and IEC 62061 guidelines.

Operation

The RS safety interlock family is comprised of three series: RS2, RS2R and RS4. The assembly comprises a sensor component and a separate magnet actuator component. The sensor is typically mounted to a stationary portion of a structure and the magnet to a movable portion. When the sensor and the actuator are within operating range, the NC contacts will be closed and the NO contacts will be open.

Features

- Non-contact actuation
- Reversible mounting
- High misalignment tolerance
- Up to SIL 3 and up to PLe ratings
- –10 to +55°C temperature range
- IP67

Standards and Certifications


- IEC 61508
- ISO 13849
- EN 1088
- cUL
- CE
- TÜV



Safety Notes

Do not use as a mechanical stop/shipping brace.

Any change to an original Eaton safety position switch is not permitted and automatically leads to the loss of all approvals.

 **Switch must never be used as a mechanical stop.**

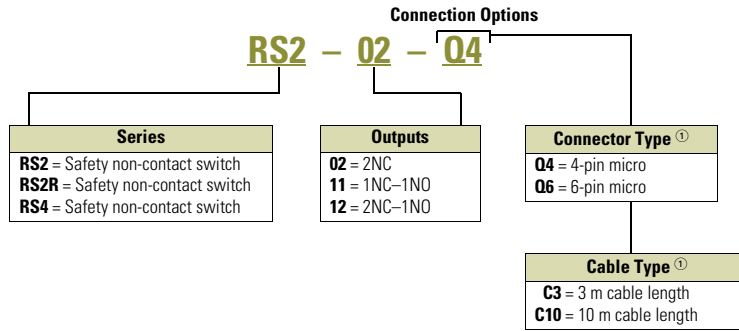
For the most current information on this product, visit our Web site: www.eaton.com

For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578. For Application Assistance in the U.S. and Canada call 1-800-426-9184.

1

Catalog Number Selection

RS2 Safety Non-Contact Switch





Note

^① For cable, replace **Q4** or **Q6** connector with **C3** or **C10** cable in catalog number.

Product Selection


RS2 Safety Interlock Switches

RS2—Standard Models

	Outputs	Description	Catalog Number
RS2 DC Connector Style 	2NC	4-pin micro connector	RS2-02-Q4
	1NC–1NO	4-pin micro connector	RS2-11-Q4
	2NC–1NO	6-pin micro connector, dual key	RS2-12-Q6
RS2 DC Cable Style 	2NC	3 m cable length	RS2-02-C3
	1NC–1NO	3 m cable length	RS2-11-C3
	2NC–1NO	3 m cable length	RS2-12-C3
	2NC	10 m cable length	RS2-02-C10
	1NC–1NO	10 m cable length	RS2-11-C10
	2NC–1NO	10 m cable length	RS2-12-C10

RS2 SmartWire-DT™ Compatible Models

RS2—Standard Models, SmartWire-DT Compatible

	Outputs	Description	Catalog Number
RS2 SmartWire-DT Compatible 	2NC	150 mm SmartWire-DT connector	RS2-02-Q4-SWD
	1NC–1NO	150 mm SmartWire-DT connector	RS2-11-Q4-SWD