

# Interlock Switches

Safety



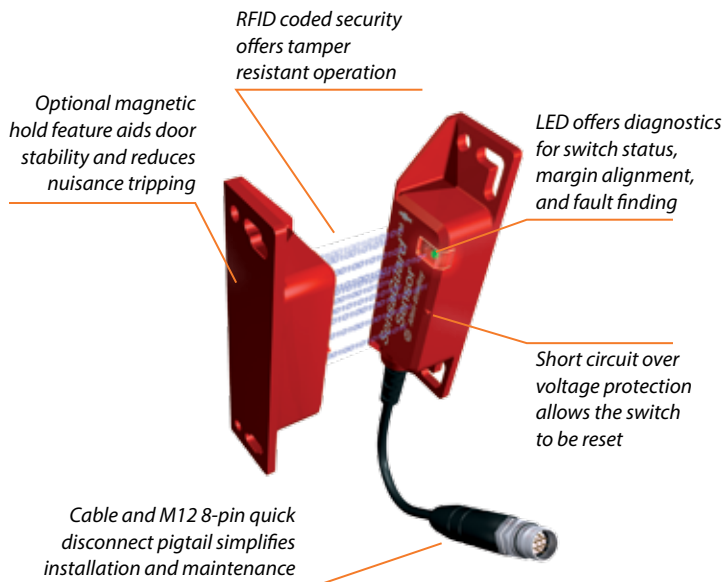
## SensaGuard Non-Contact Switches 440N

- RFID unique (high) or standard (low) coded actuators
- PLe Cat 4 per ISO 13849-1 (safety performance is maintained when connected in series)
- Flat pack and barrel (plastic housings)
- Heavy-duty stainless steel barrel models
- Standard, magnetic hold, and integrated latch versions
- IP69K washdown rating
- Assured ON 10...25 mm (depending on version)
- Type 4 interlocking device per ISO 14119 with low or high coded RFID actuators

## Non-contact Machine Safeguarding with RFID Technology

Featuring RFID technology for coding, inductive technology for sensing and combining a large sensing range 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 and is intended for use with all types of guard doors.

### Rectangular Flat Pack Version



### Integrated Latch Version



### Interlock Switches

Presence Sensing Devices



5-2...5-17



5-18...5-33

Access Control



5-34...5-35

Safety Relays



5-36...5-41

Emergency Stop Devices



5-42...5-43

Enabling Switches



5-44...5-45

Safety Limit Switches



5-46...5-47

## Product Selection

### SensaGuard Non-Contact Switches

Type	Assured Sensing Distance	Margin Indication	Magnetic Hold	Actuator Code Type	Cat. No.		
					Cable		Connector
					3 m	10 m	6 inch Pigtail, 8-pin Micro (M12) <sup>1</sup>
18 mm plastic barrel/18 mm actuator	On: 15 mm (0.59 in.) Off: 25 mm (0.98 in.)	–	–	Standard	440N-Z21S16A	440N-Z21S16B	440N-Z21S16H
	18 mm plastic			440N-Z21U16A	440N-Z21U16B	440N-Z21U16H	
18 mm plastic barrel/30 mm actuator	On: 25 mm (0.98 in.) Off: 35 mm (1.38 in.)	–	–	Standard	440N-Z21S26A	440N-Z21S26B	440N-Z21S26H
	30 mm plastic			440N-Z21U26A	440N-Z21U26B	440N-Z21U26H	
18 mm stainless steel barrel/18 mm actuator	On: 10 mm (0.39 in.) Off: 20 mm (0.79 in.)	–	–	Standard	440N-Z21S17A	440N-Z21S17B	440N-Z21S17H
	18 mm stainless steel			440N-Z21U17A	440N-Z21U17B	440N-Z21U17H	
Plastic rectangular/rectangular actuator	On: 15 mm (0.59 in.) Off: 35 mm (1.38 in.)	–	–	Standard	440N-Z21SS2A	440N-Z21SS2B	440N-Z21SS2H
				Unique	440N-Z21US2A	440N-Z21US2B	440N-Z21US2H
		Yes	–	Standard	440N-Z21SS2AN	440N-Z21SS2BN	440N-Z21SS2HN
				Unique	440N-Z21US2AN	440N-Z21US2BN	440N-Z21US2HN
		Yes	Yes (9 N)	Standard	440N-Z21SS2AN9	440N-Z21SS2BN9	440N-Z21SS2HN9
				Unique	440N-Z21US2AN9	440N-Z21US2BN9	440N-Z21US2HN9
Plastic housing with integrated latch	On: Contact/latched Off: 35 mm (1.38 in.)	–	Adjustable 20...60 N	Standard	440N-Z21SS3PA	440N-Z21SS3PB	440N-Z21SS3PH
				Unique	440N-Z21SU3PA	440N-Z21SU3PB	440N-Z21SU3PH

<sup>1</sup> For 5-pin micro (M12) connector version, replace the **H** in the catalog number with **J**.

## Specifications

<b>Standards</b>	ISO 14119, IEC 60947-5-3, IEC 61508, EN ISO 13849-1
<b>Safety Classification</b>	Type 4 Interlocking Device per ISO 14119 (Unique/ High and Standard/ Low Coding), PLe Cat 4 per ISO 13849-1
<b>Functional Safety Data</b>	Visit <a href="http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf">http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf</a>
<b>Certifications</b>	cULus Listed (UL 508), TÜV Certified, and CE Marked for all applicable directives <a href="http://www.rockwellautomation.com/certification/overview.page">www.rockwellautomation.com/certification/overview.page</a>

## Required Cordsets & Accessories

Description	Cat. No.
Cordset	889D-F8AB- <sup>2</sup>
Patchcord	889D-F8ABDM- <sup>3</sup>
Safety wired T-port	898D-438Y-D8
Safety wired shorting plug	898D-418U-DM

<sup>2</sup> Replace symbol with **2, 5, or 10** for standard cable lengths in meters.

<sup>3</sup> Replace symbol with **1, 2, 3, 5, or 10** for standard lengths in meters.

**Note:** For additional information, see Safety Connection Systems (page 4-38).

For more information on our complete family of interlock switch products, please visit:  
<http://ab.rockwellautomation.com/Safety>



# Interlock Switches

Safety



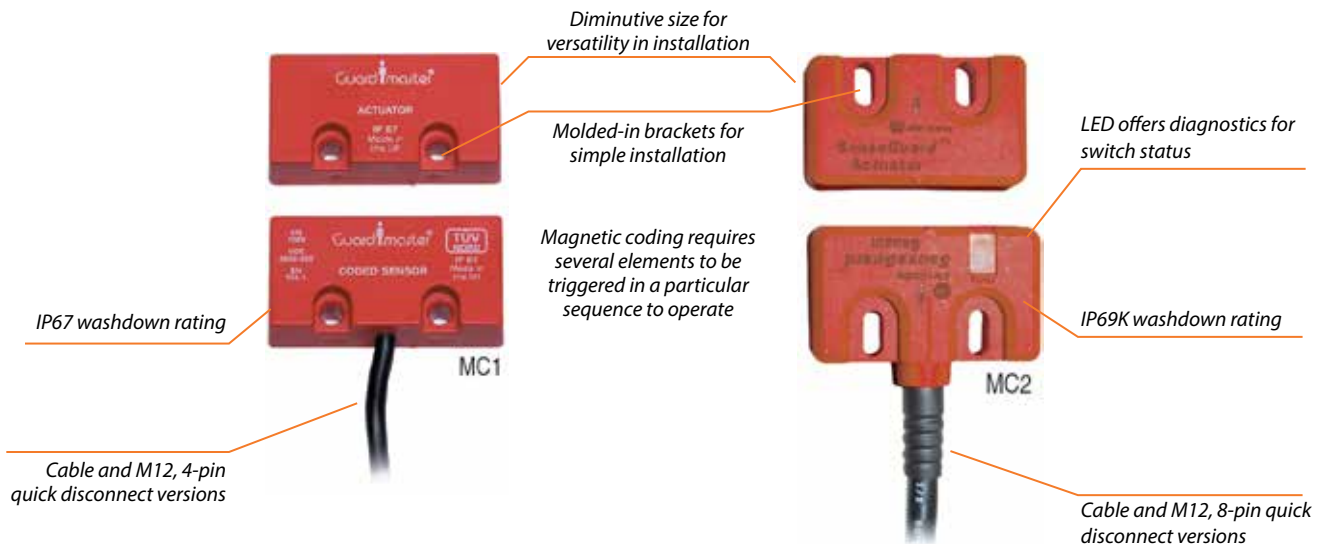
## Magnetically Coded Non-Contact Switches 440N

- Non-contact actuation
- Magnetic coded sensing
- Small size
- Molded-in mounting brackets
- High tolerance to misalignment
- Designed for use with specified safety controllers
- Type 4 interlocking device per ISO 14119 with low coded actuators

### Small Size, High Integrity

With the increasing speed and complexity of applications, a simple magnetic switch may be insufficient to meet the increased risks, MC1 and MC2 magnetically coded non-contact switches incorporate several magnetically sensitive elements, which must be triggered in a particular sequence to operate correctly.

The sensor with its molded-in brackets and diminutive size, is extremely versatile and simple to install.



### Interlock Switches

Presence Sensing Devices



5-2...5-17



5-18...5-33

Access Control



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Safety Relays



5-36...5-41

Emergency Stop Devices



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Enabling Switches



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Safety Limit Switches



5-46...5-47

## Product Selection

### Magnetically Coded Non-Contact Switches

Type	Operating Voltage/ Input Current	Safety Outputs	Auxiliary Outputs	Status Indicator	Connection	Cat. No.
MC1	–	2 N.C. REEDS	–	No	4-pin micro (M12)	440N-Z2NRS1C
					3 m cable	440N-Z2NRS1A
					10 m cable	440N-Z2NRS1B
MC2	24V DC, +10%/15%/ 50 mA max.	2 N.C. Solid- State Relays	1 x PNP, 0.2 A max.; Status: OFF (0V DC)	Yes	8-pin micro (M12)	440N-Z21W1PH
					3 m cable	440N-Z21W1PA
					10 m cable	440N-Z21W1PB

## Specifications

<b>Standards</b>	ISO 14119, IEC 60947-5-3, ISO 13849-1 when used with approved safety control
<b>Safety Classification</b>	Type 4 Interlocking Device with low coding per ISO 14119
<b>Functional Safety Data</b>	Visit <a href="http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_en-e.pdf">http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_en-e.pdf</a>
<b>Certifications</b>	CULus Listed, TÜV Certified, and CE Marked for all applicable directives <a href="http://www.rockwellautomation.com/certification/overview.page">www.rockwellautomation.com/certification/overview.page</a>

## Required Cordsets & Accessories

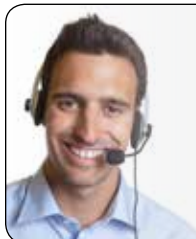
Description	Cat. No.	
Cordset	889D-F4AC- <sup>1</sup>	889D-F8AB- <sup>1</sup>
Patchcord	889D-F4ACDM- <sup>2</sup>	889D-F8ABDM- <sup>2</sup>
Distribution box	898D-4 <sup>3</sup> LT-DM4	–
Shorting plug	898D-41LU-DM	–
T-port	898D-43LY-D4	–

<sup>1</sup> Replace symbol with **2**, **5**, or **10** for standard cable lengths in meters.

<sup>2</sup> Replace symbol with **1**, **2**, **3**, **5**, or **10** for standard lengths in meters.

<sup>3</sup> Replace with **4** or **8** for number of ports available.

**Note:** For additional information, see Safety Connection Systems (page 4-38).



### Sales Offices and Distributors

Our network of sales offices and distributors offers exceptional knowledge and service to help you design, implement and support your automation investment.

[www.rockwellautomation.com/sales-partners/overview.page](http://www.rockwellautomation.com/sales-partners/overview.page)










## Tongue Interlock Switches 440K

- A full range of guard interlocking switches
- Holding forces up to 40 N
- Multiple actuator options
- Conduit or quick disconnect models
- Optional GD2 style metal head for increased robustness
- Type 2 interlocking devices per ISO 14119 with low coded tongue-shaped actuators

## A Complete Range of Guard Interlocking Solutions

	Trojan™ T15	Trojan 5 & 6 <sup>1</sup>	Elf™	Cadet™	MT-GD2
<b>Description</b>					
<b>Dimensions [H x W x D]</b>	75 x 31 x 52 mm (2.95 x 1.22 x 2.05 in.)	95 x 32 x 52 mm (3.74 x 1.26 x 2.05 in.)	75 x 25 x 29 mm (2.95 x 0.98 x 1.14 in.)	90.5 x 31 x 30.4 mm (3.56 x 1.22 x 1.2 in.)	116.5 x 38 x 40 mm (4.59 x 1.5 x 1.57 in.)
<b>Break Contact Force</b>	30 N	T5: 12 N typical, max. 30 N T6: 20 N	6 N	15 N	12, 32, 40 N
<b>Safety/Aux. Contacts</b>	2 N.C. 1 N.C./1 N.O.	T5: 2 N.C./1 N.O. T6: 3 N.C./1 N.O. 2 N.C./2 N.O.	2 N.C. 1 N.C./1 N.O.	3 N.C. 2 N.C./1 N.O.	3 N.C./1 N.O. 2 N.C./2 N.O.
<b>Material</b>	Plastic w/plastic or metal head (GD2)	Plastic w/plastic or metal head (GD2)	Plastic w/optional metal alignment guide	Plastic w/optional metal alignment guide	Metal
<b>Actuator Options</b>	Standard & fully flexible	Standard, semi-flexible, & fully flexible	Flat, 90°, & semi-flexible	Flat, 90°, & semi-flexible	Standard, fully flexible, & extended flat

<sup>1</sup> Four-contact models are available (Trojan 6).

### Interlock Switches

Presence Sensing Devices



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Access Control



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Safety Relays



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Emergency Stop Devices



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Enabling Switches



5-44...5-45

Safety Limit Switches



5-46...5-47

## Product Selection

### Trojan T15 & Trojan 5 Standard Plastic Switches

Type	Contact <sup>1</sup>		Contact Action <sup>2</sup>	Actuator Type	Cat. No.		
	Safety	Auxiliary			M20 Conduit		Connector Micro (M12) <sup>3</sup>
					M20	1/2 in. NPT Adaptor	
Trojan T15 standard	2 N.C.	–	–	Standard	440K-T11303	440K-T11267	440K-T11307
				Fully flexible	440K-T11395	440K-T11273	440K-T11384
	1 N.C.	1 N.O.	BBM	Standard	440K-T11305	440K-T11268	440K-T11386
				Fully flexible	440K-T11396	440K-T11276	440K-T11387
Trojan T15 GD2 (metal head)	2 N.C.	–	–	GD2 Standard	440K-T11463	440K-T11288	440K-T11389
				Fully flexible	440K-T11397	440K-T11287	440K-T11390
	1 N.C.	1 N.O.	BBM	GD2 Standard	440K-T11398	440K-T11284	440K-T11392
				Fully flexible	440K-T11399	440K-T11283	440K-T11393
Trojan 5 standard	2 N.C.	1 N.O.	BBM	Standard	440K-T11090	440K-T11202	440K-T11205
				Semi-flexible	440K-T11110	440K-T11203	440K-T11206
				Fully flexible	440K-T11467	440K-T11204	440K-T11207
Trojan 5 GD2 (metal head)	2 N.C.	1 N.O.	BBM	GD2 standard	440K-T11336	440K-T11211	440K-T11366
				Semi-flexible	440K-T11337	440K-T11212	440K-T11367
				Fully flexible	440K-T11338	440K-T11213	440K-T11368
Trojan 5 30 N			BBM	Standard	440K-T11333	440K-T91024	440K-T11492

<sup>1</sup> Four contact models are available (Trojan 6).

<sup>2</sup> Make before break (MBB) contact versions are also available.

<sup>3</sup> Trojan T15 uses a 4-pin connector and Trojan 5 uses a 6-pin connector.

## Specifications

<b>Standards</b>	ISO 14119, IEC 60947-5-1
<b>Safety Classification</b>	Type 2 Interlocking Device per ISO 14119
<b>Functional Safety Data</b>	Visit <a href="http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf">http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf</a>
<b>Certifications</b>	cULus Listed, TÜV Certified, and CE Marked for all applicable directives <a href="http://www.rockwellautomation.com/certification/overview.page">www.rockwellautomation.com/certification/overview.page</a>
<b>Outputs</b>	
<b>Thermal Current/</b> <sub>I<sub>th</sub></sub>	10 A
<b>Switching Current @ Voltage</b>	3 mA @ 18V DC, min.
<b>Operating Characteristics</b>	
<b>Operating Radius</b>	175 mm (6.89 in.) [60 mm (2.36 in.) with flexible actuator, min.]
<b>Mechanical Life</b>	1,000,000 operations

## Required Cordsets & Accessories

Description	Cat. No.
4-pin micro (M12) QD cordset	889D-F4AC- <sup>4</sup>
6-pin micro (M12) QD cordset	889R-F6ECA- <sup>4</sup>
4-pin micro (M12) QD patchcord	889D-F4ACDM- <sup>5</sup>
6-pin micro (M12) QD patchcord	889R-F6ECRM- <sup>5</sup>
GD2 standard actuator	440G-A27011
GD2 flat actuator	440K-A11112
Fully flexible actuator	440K-A27010

<sup>4</sup> Use **2, 5,** or **10** for standard cable lengths in meters.

<sup>5</sup> Use **1, 2, 3, 5,** or **10** for standard cable lengths in meters.



# Interlock Switches

## Product Selection

### Elf Miniature Plastic Switches

Contact			Actuator Type	Cat. No.		
				M16 Conduit		Connector
Safety	Auxiliary	Action		M16	1/2 in. NPT Adaptor	4-pin Micro (M12)
1 N.C.	1 N.O.	BBM	90°	440K-E33040	440K-E33030	440K-E33025
			Semi-flexible	440K-E33034	440K-E33031	440K-E33075
2 N.C.	-	-	90°	440K-E33041	440K-E33045	440K-E33024
			Semi-flexible	-	440K-E33046	440K-E33078

### Cadet 3 Compact Plastic Switches

Contact			Actuator Type	Cat. No.		
				M16 Conduit		Connector
Safety	Auxiliary	Action		M16	1/2 in. NPT Adaptor	6-pin Micro (M12)
3 N.C.	-	-	90°	440K-C21097	440K-C21057	440K-C21091
			Semi-flexible	-	440K-C21062	440K-C21092
2 N.C.	1 N.O.	BBM	90°	440K-C21061	440K-C21058	440K-C21067
			Semi-flexible	-	440K-C21074	440K-C21088

## Specifications

<b>Standards</b>	ISO 14119
<b>Safety Classification</b>	Type 2 Interlocking Device per ISO 14119
<b>Functional Safety Data</b>	Visit <a href="http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf">http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf</a>
<b>Certifications</b>	cULus Listed, TÜV Certified, and CE Marked for all applicable directives <a href="http://www.rockwellautomation.com/certification/overview.page">www.rockwellautomation.com/certification/overview.page</a>
<b>Outputs</b>	
<b>Thermal Current/<sub>th</sub></b>	5 A (10 A if A600)
<b>Switching Current @ Voltage</b>	3 mA @ 18V DC, min.
<b>Operating Characteristics</b>	
<b>Operating Radius</b>	150 mm (5.90 in.) [60 mm (2.36 in.) with semi-flexible actuator, min.]
<b>Mechanical Life</b>	1,000,000 operations

## Required Cordsets & Accessories

Description	Cat. No.
4-pin micro (M12) QD cordset	889D-F4AC <sup>-1</sup>
6-pin micro (M12) QD cordset	889R-F6ECA <sup>-1</sup>
4-pin micro (M12) QD patchcord	889D-F4ACDM <sup>-2</sup>
6-pin micro (M12) QD patchcord	889R-F6ECRM <sup>-2</sup>
Flat actuator <sup>3</sup>	440K-A21014
90° actuator <sup>3</sup>	440K-A21006
Metal alignment guide with semi-flexible actuator	440K-A21030

<sup>1</sup> Use **2, 5, or 10** for standard cable lengths in meters.

<sup>2</sup> Use **1, 2, 3, 5, or 10** for standard cable lengths in meters.

<sup>3</sup> Not to be used with metal alignment guide.

### Interlock Switches

Presence Sensing Devices



5-2...5-17



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Access Control



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Safety Relays



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Emergency Stop Devices



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Enabling Switches



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Safety Limit Switches



5-46...5-47

## Product Selection

### MT-GD2 Metal Body Switches

Type	Contact		Contact Action <sup>1</sup>	Actuator Type	Cat. No.		
					M20 Conduit		Connector
	Safety	Auxiliary			M20	1/2 in. NPT Adaptor	12-pin (M23)
MT-GD2	3 N.C.	1 N.O.	BBM	GD2 standard	440K-MT55074	440K-MT55022	440K-MT55095
				Fully flexible	440K-MT55075	440K-MT55029	440K-MT55096
	2 N.C.	2 N.O.		GD2 standard	440K-MT55076	440K-MT55026	440K-MT55098
				Fully flexible	440K-MT55077	440K-MT55087	440K-MT55099
MT-GD2 latch release	3 N.C.	1 N.O.		GD2 standard	440K-MT55078	440K-MT55041	440K-MT55070
				Fully flexible	440K-MT55079	440K-MT55045	440K-MT55103
	2 N.C.	2 N.O.		GD2 standard	440K-MT55080	440K-MT55050	440K-MT55104
				Fully flexible	440K-MT55081	440K-MT55051	440K-MT55052

<sup>1</sup> Make before break (MBB) and snap acting contact versions are also available.

## Specifications

<b>Standards</b>	ISO 14119, ISO 13849-1, IEC 60947-5-1
<b>Safety Classification</b>	Type 2 interlocking device per ISO 14119
<b>Functional Safety Data</b>	Visit <a href="http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_en-e.pdf">http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_en-e.pdf</a>
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<b>Outputs</b>	
<b>Thermal Current/<sub>th</sub></b>	10 A
<b>Switching Current @ Voltage</b>	3 mA @ 18V DC, min.
<b>Operating Characteristics</b>	
<b>Break Contact Force</b>	12 N (1.35 lbf), min.
<b>Operating Radius</b>	150 mm (5.90 in.) [60 mm (2.36 in.) with GD2 kit, min.]
<b>Mechanical Life</b>	1,000,000 operations

## Required Cordsets & Accessories

Description	Cat. No.
12-pin (M23) QD cordset	889M-FX9AE- <sup>2</sup>
GD2 standard actuator	440G-A27011
GD2 flat actuator	440K-A11112
Fully flexible actuator	440K-A27010

<sup>2</sup> Use **2**, **5**, or **10** for standard cable lengths in meters.



### Product Selection Tools

Available online or for download, our tools help you access info while in the office or on the go.

[www.rockwellautomation.com/support/selection.page](http://www.rockwellautomation.com/support/selection.page)





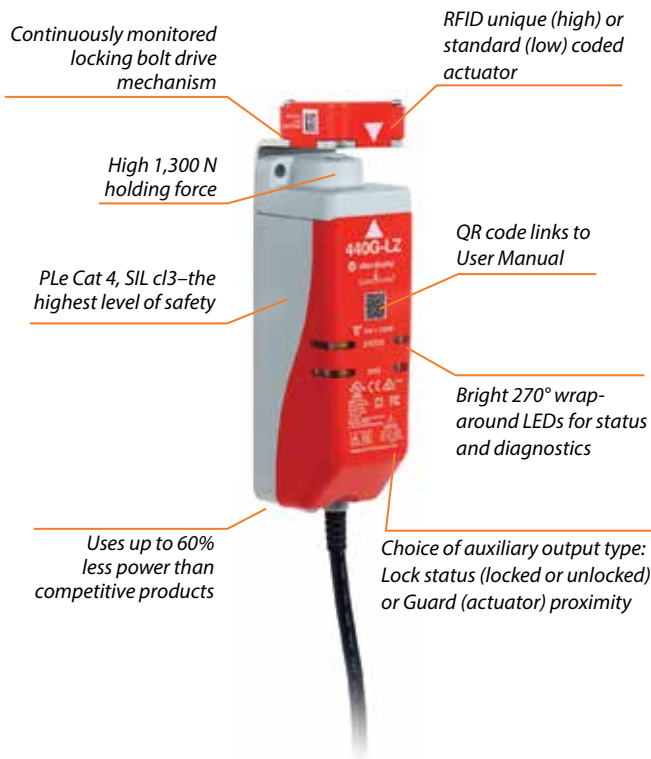


## LZ Guard Locking Switches 440G-LZ

- PLe Cat 4, SIL cl3 – the highest level of safety for guard position and lock monitoring
- Solid-state OSSD outputs
- Standard (low) or unique (high) coded RFID actuators
- High holding force for partial body access applications
- Power-to-release and power-to-lock versions
- IP69K and hygienic design
- Type 4 interlocking device with guard locking per ISO 14119 with low or high coded RFID actuators
- Auxiliary output versions: lock status or guard proximity

### The Highest Level of Safety

The Allen-Bradley Guardmaster 440G-LZ is a guard locking switch designed for partial body access guards. Combining microprocessor technology with an RFID coded actuator, the 440G-LZ features a locking bolt drive mechanism that will only lock when the correct actuator is detected. The locking bolt is continuously monitored for correct insertion within the actuator. This extra functionality allows the 440G-LZ to be certified PLe Cat 4, SIL cl3 – the highest level of safety for guard position and lock monitoring – and it can be connected directly or in series with other PLe Cat 4 or SIL cl3 rated safety devices.



Interlock Switches



Presence Sensing Devices



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Safety Relays



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Emergency Stop Devices



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Enabling Switches



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Safety Limit Switches



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## Product Selection

### 440G-LZ Guard Locking Switches

Locking Type	Actuator Type	Cat. No. <sup>1</sup>		
		Connector Type		
		3 m Lead	10 m Lead	6-in. Pigtail with M12 8-pin QD
Power-to-release	Standard (low level to EN/ISO 14119:2013)	440G-LZS21SPRA	440G-LZS21SPRB	440G-LZS21SPRH
	Unique (high level to EN/ISO 14119:2013)	440G-LZS21UPRA	440G-LZS21UPRB	440G-LZS21UPRH
Power-to-lock	Standard (low level to EN/ISO 14119:2013)	440G-LZS21SPLA	440G-LZS21SPLB	440G-LZS21SPLH
	Unique (high level to EN/ISO 14119:2013)	440G-LZS21UPLA	440G-LZS21UPLB	440G-LZS21UPLH

<sup>1</sup> To select auxiliary output type, in front of last two letters in catalog number use **P** for lock status or **T** for guard proximity. Example: 440G-LZS21STRH.



**Connected Components**  
Simpler, faster, cost-effective machine building.  
[www.rockwellautomation.com/go/cc](http://www.rockwellautomation.com/go/cc)

## Specifications

<b>Standards</b>	ISO 14119, IEC 60947-5-3, ISO 13849-1, IEC 62061
<b>Safety Classification</b>	Type 4 Interlocking Device with Guard Locking per ISO 14119 with low (standard) and high (unique) coding per ISO 14119 PLe Cat 4 per ISO 13849-1 and SIL cl3 per IEC 62061
<b>Functional Safety</b>	Visit <a href="http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf">http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf</a>
<b>Certifications</b>	cULus Listed, TÜV Certified, and CE Marked for all applicable directives <a href="http://www.rockwellautomation.com/certification/overview.page">www.rockwellautomation.com/certification/overview.page</a>
<b>Power Supply</b>	24V DC +10%/-15% Class 2 SELV
<b>Holding Force Fzh (ISO 14119:2013)</b>	1,300 N
<b>Safety Outputs</b>	2 x PNP, 0.2 A max., Status: ON (+24V DC)
<b>Auxiliary Outputs</b>	1 x PNP, 0.2 A max., Status: OFF (0V DC)
<b>Enclosure Type Rating</b>	NEMA 3, 4X, 12, 13, IP66, IP67, IP69K

## Required Cordset & Accessories

Description	Cat. No.
8-pin micro (M12) QD cordset	889D-F8AB- <sup>2</sup>
Standard power-to-release actuator	440G-LZASPR
Unique power-to-release actuator	440G-LZAUPR
Standard power-to-lock actuator	440G-LZASPL
Unique power-to-lock actuator	440G-LZAUPL
Actuator mounting bracket	440G-LZAM1
Switch body mounting bracket	440G-LZAM2

<sup>2</sup> Use **2**, **5**, or **10** for standard cable lengths in meters.

For more information on our complete family of interlock switch products, please visit:  
<http://ab.rockwellautomation.com/Safety>

