

Presence Sensing Safety Devices

Safety

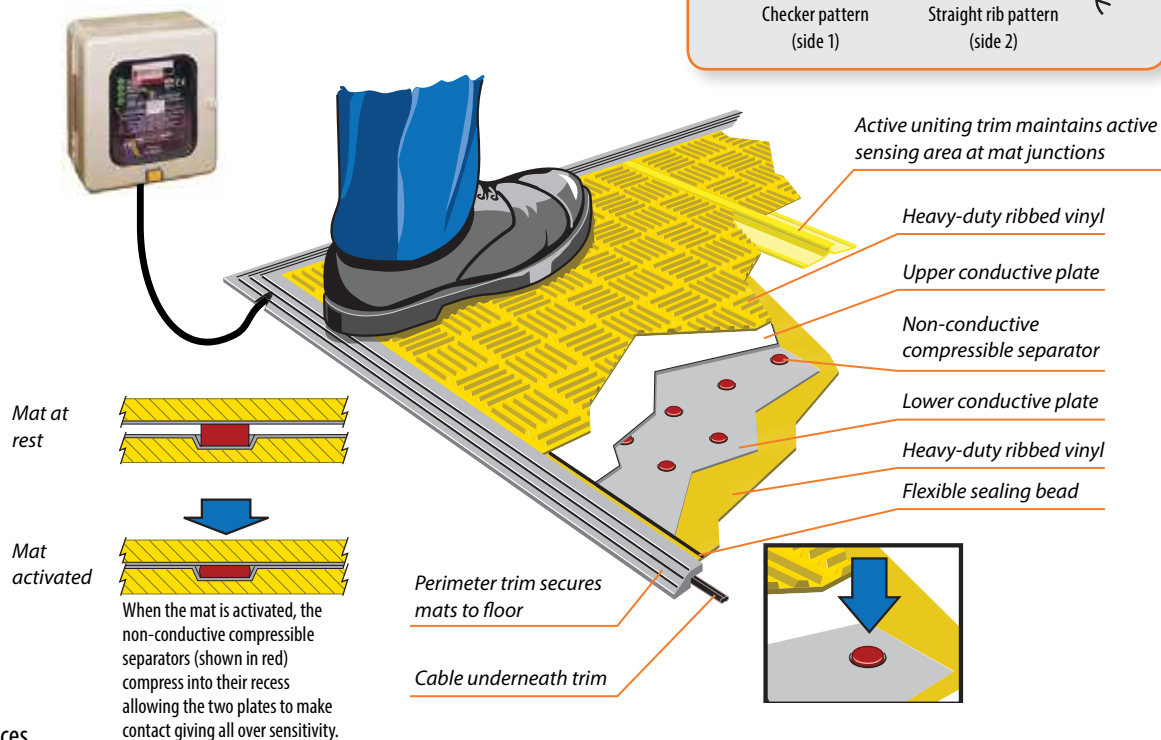
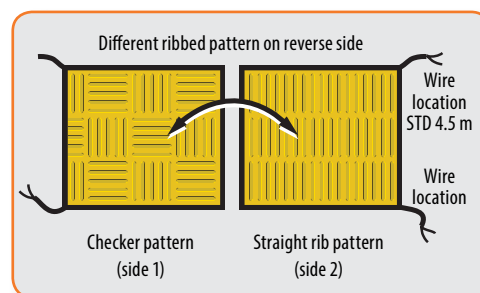


Safety Mat System 440F

- Pressure-sensitive protective device per ISO 13856 for machine safeguarding
- Hardened steel plate construction
- No dead spots
- Four-wire system to detect opens and shorts
- Withstands 4500 psi static pressure
- IP67 rated
- PLd per ISO 13849 when used with a suitable safety control

Anatomy of a Safety Mat System

When integrated to a suitable safety mat control, it detects a presence on the mat, a short circuit, or an open circuit. Under each of these conditions, the safety control issues a stop command. Multiple mats can be combined into one safety mat system with the use of joining trim.



Presence Sensing Devices



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Interlock Switches



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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



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Product Selection

Safety Mats

Mat Size [mm (in.)]	Cat. No.	
	Standard Perimeter Trim Kit	Safety Mat
500 x 500 (19.7 x 19.7)	440F-T1010	440F-M1010BYNN
500 x 1500 (19.7 x 59.1)	440F-T1030	440F-M1030BYNN
750 x 1500 (29.5 x 59.1)	440F-T1530	440F-M1530BYNN
1000 x 1000 (39.4 x 39.4)	440F-T2020	440F-M2020BYNN
1000 x 1250 (39.4 x 49.2)	440F-T2025	440F-M2025BYNN
1000 x 1500 (39.4 x 59.1)	440F-T2030	440F-M2030BYNN
1000 x 1800 (39.4 x 70.9)	440F-T1836	440F-M2036BYNN

Mat Control

Description	Cat. No.
MSR safety relay	440R-C23139
GSR SI (single input) safety relay	440R-S12R2
Multi-mat control	440F-C28011
440C-CR30 configurable safety relay	440C-CR30-22BBB

Specifications

Standards	ISO 13856, ISO 13849-1
Safety Classification	Mat(s), connection cabling, and suitable mat safety control can achieve PLd per ISO 13849
Functional Safety Data	Visit http://literature.rockwellautomation.com/idc/groups/literature/documents/sr/safety-sr001_-en-e.pdf
Certifications	cULus Listed, TÜV Certified, and CE Marked for all applicable directives www.rockwellautomation.com/certification/overview.page
Power Supply	24V DC, -20% +10%, provided by the control unit
Mechanical Life	10,000,000 operations

Required Cordsets & Accessories

Description	Cat. No.	
	4-Pin	5-Pin
Cordset	889D-F4AC-2 ¹	889D-F5AC-2 ¹
Patchcord	889D-F4ACDM-1 ²	889D-F5ACDM-1 ²
Distribution Box	898D-4 ³ LT-DM4	–
Shorting Plug	898D-41LU-DM	–
T-Port	898D-43LY-D4	–
Trim		
Standard perimeter trim (aluminum)	440F-T3210	
Aluminum external corner standard perimeter trim	440F-T3310	
Aluminum internal corner standard perimeter trim	440F-T3012	
Aluminum perimeter trim with cable channel	440F-T3013	

¹ Replace the **2** with **5** or **10** for available lengths in meters.

² Replace the **1** with **0M3**, **5**, or **10** for other available lengths in meters.

³ Replace with **4** or **8** for number of ports available.



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