



The manufacturer  
may use the mark:



Revision 1.8 July 26, 2021  
Surveillance Audit Due  
August 1, 2024



# Certificate / Certificat Zertifikat / 合格証

MII 1202038 C001

*exida* hereby confirms that the:

## SRM Safety Relay Module

**Moore Industries-International, Inc.  
North Hills, CA - USA**

Has been assessed per the relevant requirements of:

**IEC 61508 : 2010 Parts 1-7**

and meets requirements providing a level of integrity to:

**Systematic Capability: SC 2 (SIL 2 Capable)**

**Random Capability: Type A, Route 1<sub>H</sub> Device**

**PFD<sub>avg</sub> and Architecture Constraints  
must be verified for each application**

### Safety Function:

The Safety Relay Module Alarm is a relay repeater module. It accepts a single contact closure input and propagates the alarm state to three (3) relay outputs. The Monitor Output can also be used as part of a safety function.

### Application Restrictions:

The unit must be properly designed into a Safety Instrumented Function per the Safety Manual requirements.



*John C. Yozallinas*  
Evaluating Assessor

*Paul Amey*  
Certifying Assessor

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**Systematic Capability: SC 2 (SIL 2 Capable)****Random Capability: Type A, Route 1<sub>H</sub> Device****PFD<sub>avg</sub> and Architecture Constraints  
must be verified for each application****Systematic Capability:**

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 2. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated.

**Random Capability:**

The SIL limit imposed by the Architectural Constraints must be met for each element.

**IEC 61508 Failure Rates in FIT<sup>1</sup>**

Device	$\lambda_{SD}$	$\lambda_{SU}$	$\lambda_{DD}$	$\lambda_{DU}$	SFF
SRM/CC/3RO/24DC [DIN]	0	129	0	62.5	67.4%

<sup>1</sup> FIT = 1 failure / 10<sup>9</sup> hours

**SIL Verification:**

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFH/PFD<sub>avg</sub> considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each element must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

The following documents are a mandatory part of certification:

**Assessment Report:** MII 12/02-038 R001 V2 R3 (or later)

**Safety Manual:** 225-765-00G (or later)



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