



Certificate / Certificat Zertifikat / 合格証

MII 2005142 C001

exida hereby confirms that the:

Safety Logic Alarm (SLA)

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

The manufacturer
may use the mark:



Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1-3

and meets requirements providing a level of integrity to:

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type B Element

SIL 2 @ HFT=0; SIL 3 @ HFT = 1; Route 1_H

**PFH/PFD_{avg} and Architecture Constraints
must be verified for each application**

Safety Function:

The Safety Logic Alarm reads a variety of analog and/or discrete inputs and produces one or more Alarm outputs and/or one or more 4-20mA outputs based on user-configured simple math and logic equations.

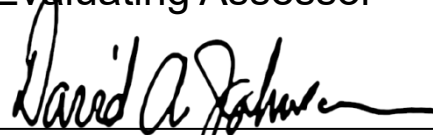
Application Restrictions:

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

Revision 1.0 September 26, 2023
Surveillance Audit Due
October 1, 2026




Evaluating Assessor


Certifying Assessor

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Random Capability: Type B Element

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Safety Logic Alarm (SLA)

Systematic Capability:

The product has met manufacturer design process requirements of Safety Integrity Level (SIL) 3. 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*

Application/Device/Configuration	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}
Common with HW Detect	579	491	123	70
Common without HW Detect	548	503	107	86
DIO Common	39	14	0	13
DI Channel	0	14	0	23
DO channel	35	2	10	3
PRG 420	33	33	216	24
PRG TC	30	11	192	10
PRG RTD	30	22	188	22
Relay Channel	9	40	0	17
AO Common	56	72	0	5
AO Channel	0	32	168	19
MODBUS/RTU	20	22	0	7

* FIT = 1 failure / 10⁹ hours

SIL Verification:

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFH/PFD_{avg} 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 20-05-142 R002 V1R0 (or later)

Safety Manual: 226-750-01 SLA Safety Manual



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