The manufacturer
may use the mark:

CERTIFIED
exida
FS
IEC 61508
SIL 2 CAPABLE

Revision 1.0 December 14, 2018
Surveillance Audit Due
January 1, 2022

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

ANSI ACCREDITED

ISO/IEC 17065
PRODUCT CERTIFICATION BODY
#1004

Certificate / Certificat
Zertifikat / 合格証

MEG 1806102 C001

exida hereby confirms that the:

VM600 Machinery Protection System
Meggitt SA
Fribourg
Switzerland

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 B Element

SIL 2 @ HFT=0, Low Demand; Route 2_H

SIL 2 @ HFT=1, High Demand; Route 2_H

**PFH/PFD$_{avg}$ and Architecture Constraints
must be verified for each application**

Safety Function:

The VM600 Machinery Protection System reads measured values from transducer inputs, compares them to configured alarm set points, then generates a trip relay output to put the process into a safe state.

Application Restrictions:

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

_____
Evaluating Assessor

_____
Certifying Assessor

Certificate / Certificat / Zertifikat / 合格証

MEG 1806102 C001

Systematic Capability: SC 2 (SIL 2 Capable)

Random Capability: Type B Element

SIL 2 @ HFT=0, Low Demand; Route 2_H

SIL 2 @ HFT=1, High Demand; Route 2_H

**PFH/PFD$_{avg}$ and Architecture Constraints
must be verified for each application**

VM600 Machinery Protection System

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. This Device meets *exida* criteria for Route 2_H.

IEC 61508 Failure Rates: See VM600 Safety Manual

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: MEG 18-06-102 R002 V1R0

Safety Manual: VM600 Safety Manual; version 1.0 and later

80 N Main St
Sellersville, PA 18960

T-013, V5R1