



Certificate / Certificat Zertifikat / 合格証

FLO 1905142 C001

exida hereby confirms that the:

PMV PS/PM Series UltraSwitch Switch box

PMV Automation AB
Solna, Sweden

Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1-2

and meets requirements providing a level of integrity to:

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type A, Route 2_H Device

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

Safety Function:

The Switchbox Sensor/Switch Output will change when the attached Valve moves to the Switchbox's preset position.

Application Restrictions:

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

The manufacturer
may use the mark:



Revision 2.0 Jan 22, 2026
Surveillance Audit Due
November 1, 2028



Evaluating Assessor

Certifying Assessor

Systematic Capability: SC 3 (SIL 3 Capable)

Random Capability: Type A, Route 2_H Device

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

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

Versions:

Group	Description / Application	Applicable Switch Codes
Group 1	Namur Proximity Sensors	N3, N4, N8, S, NG, NM, NP, NQ, NW, & NY
	MicroSwitches and Proximity Reed Switches, rated up to 2 Amps and external Current Limiting/Protection*	MG & P5
Group 2	Proximity Reed Switches, rated up to 2 Amps and external Current Limiting/Protection*	L, H, PE, PP, & PT
Group 3	MicroSwitches (Applications with Switches rated up to 15 Amps)	M1, MC, & MK

IEC 61508 Failure Rates in FIT¹

Application/Device/Configuration	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}	#
Group 1 – NAMUR Proximity Sensors, MicroSwitches*, or Proximity Reed Switches*	0	16	0	89	37
Group 2 – Proximity Reed Switches*	0	5	0	74	38
Group 3 – MicroSwitches (Applications with Switches rated up to 15 Amps)	0	18	0	118	40

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: FLO 19/05-142 R005 V3R0 Switchbox Assessment Report (or later)

Safety Manual: Ultra-Switch Safety Manual _ V1R2 (or later)



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Sellersville, PA 18960

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UltraSwitch Switch box