



Certificate / Certificat Zertifikat / 合格証

ROT 1909032 C001

exida hereby confirms that the:

Posidapt Smart Positioner

**Rotex Manufacturers & Engineers
Pvt. Ltd., Maharashtra - India**

The manufacturer
may use the mark:



Revision 2.0 May 31, 2026
Surveillance Audit Due
July 01, 2029

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 valve positioner will move the valve to the designed safe position per the valve design within the specified safety time.

Application Restrictions:

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



Evaluating Assessor

Certifying Assessor

ROT 1909032 C001

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

Module 1	Double Acting or Spring Return for Fail Safe or Fail Close
Module 2	Single Acting Reverse with Solenoid Valve (Normally Open)
Module 3	Single Acting Direct with Solenoid Valve (Normally Close)

Note: The solenoid valve is not in the scope of this certification.

IEC 61508 Failure Rates in FIT*

Static Application – Clean Service	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}
De-Energize to Trip, Single Acting	0	282	0	244
De-Energize to Trip, Double Acting	0	241	0	285

* 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: ROT 19/09-032 R002 V2R1 (or later)

Safety Manual: RTX-POS-23-01, REV 1 (or later)



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