



Certificate / Certificat Zertifikat / 合格証

WES 1810017 C001

exida hereby confirms that the:

AccuTrak 316 Silver Bullet Westlock Controls Saddle Brook, NJ - USA

The manufacturer
may use the mark:



Have 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 3 (SIL 3 Capable)

Random Capability: Type A, Route 2_H Device

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

Revision 2.0 July 19, 2021

Surveillance Audit Due
July 1, 2024

Safety Function:

The Switch will open/close within the specified safety time when the Magnetic Trigger is brought within the sensing range.

Application Restrictions:

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



Evaluating Assessor

Certifying Assessor

WES 1810017 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 :

These product have 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

Series	Switch Type	Switch Quan
316SB	316SB or 316LT	1 or 2

IEC 61508 Failure Rates¹ in FIT²

Switch Circuit Qty	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}
1 Switch Circuit	0	8	0	19
2 Switch Circuits	0	17	0	38

¹ Failure Rates listed are only applicable if the switch contacts current is limited to 60% of the switches rated capacity and the end user has added external transient protection if being used with non-resistive loads.

² 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: WES15/05-053 R002 V4 R1 (or later)

Safety Manual: SMAN-006

AccuTrak 316
Silver Bullet



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