

# COMPLIANCE

with IEC 61508:2010

Certificate No.: C – IS – 260334 – 01

**CERTIFICATE OWNER:** Pepperl + Fuchs GmbH  
Lilienthalstrabe 200,  
68307 - Mannheim - Germany

**WE HEREWITH CONFIRM THAT**  
**THE MODULES IN THE TABLE ENCLOSED TO THE PRESENT DOCUMENT**  
**MEET THE REQUIREMENTS OF IEC 61508:2010**  
*(LOW AND HIGH DEMAND MODE OF OPERATION)*

**Examination result:** The above described Modules were found to meet the standard defined requirements of the safety levels detailed in the following table (T-IS-260334-01) according to IEC 61508:2010, under fulfillment of the conditions listed in the related Report, mentioned in the same table, in their currently valid version, on which this Certificate is based

**Examination parameters:** Functional characteristics, reliability and availability parameters and functional safety management

**Official Summary Table No.:** T-IS-260334-01

IT IS TO BE INTENDED THAT THE ABOVE OFFICIAL SUMMARY TABLE IS AN INTEGRAL PART OF THIS DOCUMENT  
THE PRESENT DOCUMENT SUBSTITUTES AND REPLACES THE DOCUMENT C-IS-204399-01-REV.1

**Reference Standard** IEC 61508:2010 Part 1, 2, 4, 6, 7

Sesto San Giovanni, June, 15<sup>th</sup> 2015

TÜV ITALIA Srl

TÜV ITALIA Srl  
Industry Service Division  
Director



Gennaro Oliva





Italia

**SUMMARY TABLE  
T-IS-260334-01**

	ITEM NAME	REPORT CODE	FINAL RESULTS						
			System type	PFH [h <sup>-1</sup> ]	PFD <sub>avg</sub>	T <sub>Proof</sub>	Configuration	Allowed SIL	Systematic Capability
1.	HIC2025ES HID2025ES KCD2-STC-Ex1.ES(.SP) KFD2-STC4-Ex1.ES	R-IS-260334-01- Rev.1	Type A	9,87 E-9	9,44 E-5	1 year	Input from active or passive Tx and Output as current source or current sink or voltage source.	SIL3*	SC3
					1,32 E-4	2 years		SIL3**	SC3
					2,45 E-4	5 years		SIL3**	SC3
					4,32 E-4	10 years		SIL3**	SC3

Safe Detected Failure $\lambda_{SD}$	Safe Undetected Failure $\lambda_{SU}$	No Effect Failure $\lambda_{NE}$	Dangerous Detected Failure $\lambda_{DD}$	Dangerous Undetected Failure $\lambda_{DU}$	Safe Failure Fraction SFF
0,00 FIT	0,00 FIT	301.64 FIT	220,00 FIT	9.87 FIT	95,7 %

(\*)Considering the products not contribute more than 10% of total SIF dangerous failure.

(\*\*)Considering the products contribute more than 10% of total SIF dangerous failure.



T-IS-260334-01

NOTE: The present table is integral part of the Document: C-IS-260334-01

Date: June, 15<sup>th</sup> 2015