C E R T I F I C A T E

This certifies that the company

Pepperl+Fuchs SE
Lilienthalstrasse 200
68307 Mannheim
Germany

Is authorized to provide the product mentioned below

Description of product: **KCD2-SCD-Ex1.ES, KCD2-SCD-Ex1.ES.SP and HiC2031ES SMART Current Driver (1-channel isolated barrier for intrinsic safety applications).**

In accordance with: **IEC/EN 61508:2010 Parts 1, 2, 4, 5, 6, 7**

Inspection & Certification Services TÜV NORD Italia S.r.l.

Registration No 20 19716
Test Report No PS-27897-25-M
File reference 27897-01

Validity
from 2025-11-19
until 2028-11-19

TÜV Nord Italia S.r.l (TÜV NORD Group)
Via Turati, 70 – 20023 Cerro Maggiore (MI) – Italy
www.tuev-nord.it

Cerro Maggiore, 2025-11-19
prodotto@tuev-nord.it

Please also pay attention to the information stated overleaf

Safety function	To repeat the input current (4 mA to 20 mA) with a tolerance of 2 % related to the maximum value of the output span.
Mode of operation	Low Demand Mode and High Demand Mode.

Results		
Parameter	**Value**	**Measuring Unit**
Type	A	--
Architecture	1oo1	--
HFT	0	--
β, β_D factors	10	%
T_{amb}	40	°C
λ_{DD}	1.78E-07	1/h
λ_{DU}	8.15E-09	1/h
λ_S	0.00E+00	1/h
DC_{avg}	95.60	%
SFF	95.60	%
MTTR	24	h
MRT	24	h
PFD_{avg} (Ti = 1 year)	4.25E-05	--
PFD_{avg} (Ti = 2 years)	7.78E-05	--
PFD_{avg} (Ti = 5 years)	1.84E-04	--
PFD_{avg} (Ti = 10 years)	3.60E-04	--
PFH	8.15E-09	1/h
Systematic Capability	3	--
SIL	3	--

The product can be declared as compliant to:	**IEC/EN 61508 SIL 3**

Remarks:	For T_{amb} = 60 °C it is possible to multiply the lambdas by a conservative factor of 2.5, this factor shall also use in case of frequent temperature oscillation within the specifications. For further details please refer to safety manual “tdoct6682__eng” revision 2020-4.