



[1] **TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] Type Examination Certificate Number: **FIDI 22 ATEX 0002X** Issue: **1**

[4] Product: **Transformer Isolated Driver**
Type: **KFD2-SCD2-Ex1.LK(-Y*) or KFD2-SCD2-Ex2.LK(-Y*)**

[5] Manufacturer: **Pepperl+Fuchs SE**

[6] Address: **Lilienthalstrasse 200, 68307 Mannheim, Germany**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Certification Body, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 22 CR 002**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **EN IEC 60079-7:2015 / A1:2018**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 3G Ex ec IIC T4 Gc

Our ref.: 21.CRT.488

Date: 25.01.2022.



FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.



[13] **SCHEDULE**

[14] **TYPE EXAMINATION CERTIFICATE No.:** **FIDI 22 ATEX 0002X**

[15] **Description of product**

The Type KFD2-SCD2-Ex*.LK Transformer Isolated Driver is a two-channel safety device intended for transfer of signals and intended for installation in hazardous areas that require EPL Gc.

The equipment comprises several electronics components, including transformers, fuses, resistors and zener diodes, all mounted on a single printed circuit board and housed within a plastic enclosure fitted with terminals for external connections.

The segregation of the hazardous area circuits meets the requirements for 250V.

Technical data:

Ambient temperature:	-40°C to +70°C
Rated voltage:	
(Terminals 14[+], 15[-] or Power Rail contacts)	19-30 Vdc
Input:	
(Terminals 8 & 9 [+], 7[-])	0/4 – 20 mA signal (up to 30 V max)
(Terminals 11 & 12 [+], 10[-])	0/4 – 20 mA signal (up to 30 V max)
Output:	
(Terminals 1[+], 2[-])	0/4 – 20 mA signal (100 Ω – 650 Ω load)
(Terminals 4[+], 5[-])	0/4 – 20 mA signal (100 Ω – 650 Ω load)
(Terminals 3[+], 2[-])	0/4 – 20 mA signal (0 Ω – 550 Ω load)
(Terminals 6[+], 5[-])	0/4 – 20 mA signal (0 Ω – 550 Ω load)

[16] **Confidential Report No.** **FIDI 22 CR 002**

[16.1] **Routine testing**

Transformer Isolated Driver shall be subject to a routine dielectric strength test according to the clause 7.1 of EN IEC 60079-7.

[17] **Specific Conditions of Use**

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with the requirements of EN IEC 60079-0. In addition, the equipment must be installed and operated only in the environment of overvoltage category II (or better) and in a controlled environment that ensure a pollution degree 2 (or better) as defined in EN IEC 60664-1.
- The equipment must be installed in a suitable enclosure that requires the service temperature inside the enclosure to be evaluated at the location of the equipment. The installer shall ensure that the maximum ambient temperature of the equipment when installed is not exceeded.



[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Instruction Manual (Sheets 1 to 2)	266-0036FI-09	-	14.01.2022.
Marking (Sheets 1 to 2)	266-0036FI-10	-	14.01.2022.
Drawings:			
Relevant Components for Zone 2 (Sheets 1 to 16)	266-0036UL-02M	-	05.11.2019.
Moulded Transformer Housing-base (Sheets 1 to 5 of 15)	266-0036BS-04M	-	25.07.2019.
KF-extended – Housing 15 Term. Asymm (Sheets 6 to 15 of 15)	266-0036BS-04M	-	25.07.2019.
Schematics KFD2-SCD2-Ex*(.LK)(-Y*) (Sheets 1 to 5)	266-0036BS-01M	-	25.06.2019.