

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 17.3006X**

Current Issue: 1

Date of Issue: 2025-04-04

Applicant: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Equipment: K Series Isolated Barriers

Type of Explosion Protection: Intrinsic Safety 'i'

Explosion Protection Marking: [Ex ia Ma] I
-20°C ≤ Ta ≤ +50°C (For KFD2-SL2-Ex2* & KFD2-SL2-Ex2.B*)
-20°C ≤ Ta ≤ +60°C (For all other models)

*This certificate is granted subject to the requirements as set out in
Joint Accreditation System of Australia and New Zealand Publications
ANZEx System Rules 2020 & ANZEx Certified Equipment Scheme Rules 2021*

Signed for and on behalf of issuing body



Name & Position

Ujen Singh – Quality & Certification Manager

This certificate is not transferable and remains the property of the issuing body.

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753 Australia

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Manufacturer : **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Manufacturing Location(s): **Pepperl+Fuchs Asia Pte. Ltd.**
18 Ayer Rajah Crescent
Singapore 139942
Singapore

PT Pepperl+Fuchs Bintan (Indonesia)
Jl. Asoka SD 56 - 57
Bintan Industrial Zone
Lobam, 29152
Indonesia

Pepperl+Fuchs Co. Ltd.
Lot S 12-16a, Street 20 Tan Thuan EPZ
Ward Tan Thuan Dong, District 7
Ho Chi Minh City
Vietnam

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0:2011 Ed 6 Explosive atmospheres Part 0: Equipment—General requirements

IEC 60079-11:2011 Ed 6 Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

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Schedule

Equipment Description:

The K-System consists of wide range of isolated barriers suitable for mounting on 35 mm DIN mounting rail. These devices are associated apparatus and are used in C&I technology for the galvanic isolation of C&I signals, such as 20 mA and 10 V unit signals, and also for the adaptation and/or standardization of signals. Devices which have intrinsically safe control circuits are used to operate field devices within hazardous areas.

The maximum permissible ambient temperature is 60°C, except for models KFD2-SL2-Ex2* & KFD2-SL2-Ex2.B*, which operate at the maximum ambient temperature of 50°C.

The apparatus comprises of the following models:

MODEL	Comment
KFA5-DU-Ex1.D* KFA5-DWB-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFA6-DU-Ex1.D* KFA6-DWB-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFD0-CS-Ex*.50P KFD0-CS-Ex*.51P	(* = 1 for one channel or 2 for dual channel version)
KFD0-RO-EX2*	(* represents any number/letter not related to intrinsic safety)
KFD0-SD2-Ex*.1045 KFD0-SD2-Ex*.1065 KFD0-SD2-Ex1.10100 KFD0-SD2-Ex1.1180 KFD0-SD2-Ex*.1245	(* represents 1 for one channel or 2 for dual channel version)
KFD2-CD-Ex1.32-**	(** = 0 to 8 - Current Output Version: 0-20mA & 4-20mA) (** = 9 to 25 - Voltage Output Version 0-5V, 1-5V, 0-10V & 2-10V)
KFD2-CD2-Ex*	(* = 1 for one channel or 2 for dual channel version)
KFD2-CRG2-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFD2-DU-Ex1.D* KFD2-DWB-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFD2-PT2-Ex1* KFD2-PT2-Ex1*Y*	(* represents any number/letter not related to intrinsic safety)
KFD2-SCD2-Ex*.LK	(* = 1 for one channel or 2 for dual channel version)
KFD2-SL2-Ex1* KFD2-SL2-Ex1.B* KFD2-SL2-Ex2* KFD2-SL2-Ex2.B*	(* represents any number/letter not related to intrinsic safety)
KFD2-SL2-Ex1.LK KFD2-SL2-Ex1.LK.1045 KFD2-SL2-Ex1.LK.1270	
KFD2-SR2-Ex1.W* KFD2-SR2-Ex1.W.LB*	(* represents any number/letter not related to intrinsic safety)

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MODEL	Comment
KFD2-SR2-Ex2.W*	
KFD2-SR2-Ex2.W.SM*	
KFD2-SR3-Ex2.2S*	(* represents any number/letter not related to intrinsic safety)
KFD2-UFC-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFD2-UFT-Ex2.D*	
KFD2-VR2-Ex1.50M	
KFD2-VR2-Ex1.500M	
KFD2-VR4-Ex1.26	
KFU8-CRG2-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFU8-DU-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFU8-DWB-Ex1.D*	
KFU8-UFC-Ex1.D*	(* represents any number/letter not related to intrinsic safety)
KFU8-UFT-Ex2.D*	

Electrical Ratings/Parameters

Non-hazardous Area terminals

Model	Terminals	Um	Un
KFA5-DU-Ex1.D*	23, 24 (Power supply)	126.5 V	115 V AC
KFA5-DWB-Ex1.D*	10, 11, 12 and 16, 17, 18 (Contact circuits)	250 V	2 A, 250 V AC or 2 A, 40 V DC
	19, 20 (Transistor outputs)	40 V	
	13,14 (Control inputs)	40 V	
	PR3, PR5 (Interface RS485)	40 V	
	PR4 (Sum error)	40 V	
KFA6-DU-Ex1.D*	23, 24 (Power supply)	250 V	230 V AC
KFA6-DWB-Ex1.D*	10, 11, 12 and 16, 17, 18 (Contact circuits)	250 V	2 A, 250 V AC or 2 A, 40 V DC
	19, 20 (Transistor outputs)	40 V	
	13,14 (Control inputs)	40 V	
	PR3, PR5 (Interface RS485)	40 V	
	PR4 (Sum error)	40 V	
KFD0-CS-Ex*.50P	7, 8, 9, 10, 11 & 12	250 V	35 V DC
KFD0-CS-Ex*.51P			
KFD0-RO-EX2*	7, 8 (Channel 1) or 8, 9 (Channel 2)	40 V DC	20...30 V DC
KFD0-SD2-Ex*.1045	7, 8 (Channel 1) or 8, 9 (Channel 2)	250 V	20...35 V DC
KFD0-SD2-Ex*.1065			
KFD0-SD2-Ex1.10100			
KFD0-SD2-Ex1.1180			
KFD0-SD2-Ex*.1245			
KFD2-CD-Ex1.32-**	7, 8, 9,10 & 11 and Power Rail Connector	250 V	35 V DC
KFD2-CD2-Ex*	7 to 9 (One channel) / 7 to 12 (Two channel), 14 & 15 and power rail terminals 1, 2 and 4	250 V	35 V DC
KFD2-CRG2-Ex1.D*	23, 24 or PR1, PR2 (Power supply)	40 V	20...30 V DC
	10, 11, 12 and 16, 17, 18 (Relay outputs)	250 V	2 A, 250 V AC 500 VA or

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Model	Terminals	Um	Un
	7, 8 (Current output) 19, 20 (Transistor output) 3.5 mm plug (RS232 interface)	40 V 40 V 40 V	2 A, 40 V DC 80 W 0...20 mA, Rmax = 650Ω
KFD2-DU-Ex1.D* KFD2-DWB-Ex1.D*	23, 24 or PR1, PR2 (Power supply) 10, 11, 12 and 16, 17, 18 (Contact circuits) 19, 20 (Transistor outputs) 13,14 (Control inputs) PR3, PR5 (Interface RS485) PR4 (Sum error)	40 V 250 V 40 V 40 V 40 V 40 V	20...30 V DC 2 A, 250 V AC or 2 A, 40 V DC
KFD2-PT2-Ex1* KFD2-PT2-Ex1*Y*	11+,12- or Power Rail 7-, 8+ (Output)	250 V	20...35 V DC
KFD2-SCD2-Ex*.LK	7 to 9 (One channel) / 7 to 12 (Two channel), 14 & 15 and power rail terminals 1, 2 and 4	250 V	35 V DC
KFD2-SL2-Ex1* KFD2-SL2-Ex1.B* KFD2-SL2-Ex2* KFD2-SL2-Ex2.B*	14,15 or PR1, PR2 (Power supply) PR2 & PR4 (Error-output) 7, 8 or 8, 9 (Input circuits)	40 V 40 V 60 V	20...30 V 0...30 V
KFD2-SL2-Ex1.LK KFD2-SL2-Ex1.LK.1045 KFD2-SL2-Ex1.LK.1270	14+,15- or PR1, PR2 (Power supply) PR4 (Fault Signal) 7, 8 (Input) 10, 11, 12 (relay output)	40 V 40 V 60 V 250 V AC	20...30 V DC 0...30 V ≤ 250 V AC / 2 A 40 V DC / 2A
KFD2-SR2-Ex1.W* KFD2-SR2-Ex1.W.LB* KFD2-SR2-Ex2.W* KFD2-SR2-Ex2.W.SM*	14+,15- or PR1, PR2 (Power supply) PR4 (Fault Signal) 7, 8, 9 or 10,11,12 (Outputs)	125 V DC 250 V AC 40 V DC 250V AC	20...30 V DC ≤ 250 V AC / ≤ 2 A ≤ 126.5 V AC / ≤ 4 A ≤ 40 V DC / ≤ 2 A
KFD2-SR3-Ex2.2S*	14+,15- or PR1[+], PR2[-] (Power supply) PR4 (Fault Signal) 7, 8, 9 and 10, 11, 12 (Relay outputs)	250 V	19...30 V DC 30 V DC 48 V AC/40 V DC, I ≤ 1 A
KFD2-UFC-Ex1.D* KFD2-UFT-Ex2.D*	23, 24 or PR1, PR2 (Power supply) 10, 11, 12 and 16, 17, 18 (Relay outputs) 7, 8 (Current output) 19, 20 & 20,21 (Transistor outputs) 13,14 & 14, 15 (Control inputs) 3.5 mm plug (RS232 interface) PR3, PR5 (Interface RS485) PR4 (Sum error)	40 V 250 V 40 V 40 V 40 V 40 V 40 V 40 V	20...30 V DC 2 A, 250 V AC 500 VA or 2 A, 40 V DC 80 W 0...20 mA, Rmax = 650Ω
KFD2-VR2-Ex1.50M KFD2-VR2-Ex1.500M	1 & 14 wrt 2 & 15 and 7 wrt 8	250 V	20...30 V DC

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KFD2-VR4-Ex1.26	7, 8, 11 & 12 and Power Rail Connector	250 V	20...30 V DC
KFU8-CRG2-Ex1.D*	23, 24 (Power supply) 10, 11, 12 and 16, 17, 18 (Relay outputs) 7, 8 (Current output) 19, 20 (Transistor output) 3.5 mm plug (RS232 interface)	125 V DC 250 V AC 250 V 40 V 40 V 40 V	20...90 V DC 48...250 V AC 2 A, 250 V AC 500 VA or 2 A, 40 V DC 80 W 0...20 mA, Rmax = 650Ω
KFU8-DU-Ex1.D* KFU8-DWB-Ex1.D*	23, 24 (Power supply) 10, 11, 12 and 16, 17, 18 (Contact circuits) 19, 20 (Transistor outputs) 13,14 (Control inputs) PR3, PR5 (Interface RS485) PR4 (Sum error)	250 V 250 V 40 V 40 V 40 V 40 V	20...90 V DC or 48...250 V AC 2 A, 250 V AC or 2 A, 40 V DC
KFU8-UFC-Ex1.D* KFU8-UFT-Ex2.D*	23, 24 (Power supply) 10, 11, 12 and 16, 17, 18 (Relay outputs) 7, 8 (Current output) 19, 20 & 20,21 (Transistor outputs) 13,14 & 14, 15 (Control inputs) 3.5 mm plug (RS232 interface) PR3, PR5 (Interface RS485) PR4 (Sum error)	250 V 250 V 40 V 40 V 40 V 40 V 40 V 40 V	20...90 V DC 48...250 V AC 2 A, 250 V AC 500 VA or 2 A, 40 V DC 80 W 0...20 mA, Rmax = 650Ω

Hazardous Area terminals

Output parameters:

Model	Terminals	Uo (V)	Io (mA)	Po (mW)	Co (μF)	Lo (mH)	Lo/Ro (μH/ Ω)
KFA5-DU-Ex1.D* KFA5-DWB-Ex1.D*	1, 3	10.1	13.5	34	79	1000	-
KFA6-DU-Ex1.D* KFA6-DWB-Ex1.D*	1, 3	10.1	13.5	34	79	1000	-
KFD0-CS-Ex*.50P KFD0-CS-Ex*.51P	1 & 2 (Channel 1) 4 & 5 (Channel 2)	25.2	93	585	2.4	51	797
KFD0-SD2-Ex*.1045	1 wrt 2 & 3 (Channel 1) 4 wrt 5 & 6 (Channel 2)	25.2	93	586	2.4	53.95	796
KFD0-SD2-Ex*.1065	1 wrt 2 & 3 (Channel 1) 4 wrt 5 & 6 (Channel 2)	17.22	220	947	5.9	9.64	492
KFD0-SD2-Ex1.10100	1 wrt 2 & 3 (Channel 1) 4 wrt 5 & 6 (Channel 2)	17	271	1152	6.32	6.35	405

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KFD0-SD2-Ex1.1180	1 wrt 2 & 3 (Channel 1) 4 wrt 5 & 6 (Channel 2)	25.2	184	1159	2.4	13.78	402
KFD0-SD2-Ex*.1245	1 wrt 2 & 3 (Channel 1) 4 wrt 5 & 6 (Channel 2)	25.2	110	693	2.4	38.56	673
KFD2-CD-Ex1.32-** (where ** = 0 to 8)	1 & 2	25.2	93	586	2.4	26	779
KFD2-CD-Ex1.32-** (where ** = 9 to 25)	1 & 2	25.2	95	586	2.4	26	779
KFD2-CD2-Ex*	1 & 2 (Channel 1) 4 & 5 (Channel 2)	25.2	93	585	2.4	26	787
KFD2-CRG2-Ex1.D*	1, 2, 3	25.8	112	720	2.28	20	-
	1, 3	25.8	93	603	2.28	30	-
	2, 3	5	0.3	0.3	-	-	-
KFD2-DU-Ex1.D*	1, 3	10.1	13.5	34	79	1000	-
KFD2-DWB-Ex1.D*							
KFD2-PT2-Ex1*	1, 2, 3, 4 & 5	10.4	31.4	82	110	473.31	3000
KFD2-PT2-Ex1*Y*	1, 2, 3, 4 & 5	10.4	46	120	69	220.54	3000
KFD2-SCD2-Ex*.LK	1 & 2 (Channel 1) 4 & 5 (Channel 2)	25.2	93	585	2.4	26	787
KFD2-SL2-Ex1*	1, 2, 3 (Channel 1)	28	110	770	1.88	38.5	-
KFD2-SL2-Ex1.B*	4, 5, 6 (Channel 2)						
KFD2-SL2-Ex2*							
KFD2-SL2-Ex2.B*							
KFD2-SL2-Ex1.LK	1, 2, 3	28	110	770	1.88	38.57	-
KFD2-SL2-Ex1.LK.1045	1, 2, 3	26	93	607	2.25	53.96	-
KFD2-SL2-Ex1.LK.1270	1, 2, 3	22.1	248	1380	2.97	7.59	-
KFD2-SR2-Ex1.W*	1, 2, 3 (Channel 1)	10.5	13	34	95	1000	-
KFD2-SR2-Ex1.W.LB*	4, 5, 6 (Channel 2)						
KFD2-SR2-Ex2.W*	1, 2, 3 and 4, 5, 6 (combined)	10.5	26	68	95	500	-
KFD2-SR2-Ex2.W.SM*							
KFD2-SR3-Ex2.2S*	1+, 2+, 3- (Channel 1) 4+, 5+, 6- (Channel 2)	10.5	17.1	45	95	1000	10390
KFD2-UFC-Ex1.D*	1, 3 (Channel 1)	10.1	13.5	34	79	1000	-
KFD2-UFT-Ex2.D*	4, 6 (Channel 2)						
	1, 3 and 4, 6 (Parallel)	10.1	27	68	79	600	-
KFD2-VR2-Ex1.50M	4 wrt 5	5.5	2.4	3.3	1000	1000	425
KFD2-VR2-Ex1.500M							
KFD2-VR4-Ex1.26	1, 3, 5 wrt 4 and 2, 6 wrt 4	-25.2	90	570	2.4	54.95	785
	All hazardous area Terminals 1 to 6	-26.4	90	570	2.17	54.95	785
KFU8-CRG2-Ex1.D*	1, 2, 3	25.8	112	720	2.28	20	-
	1, 3	25.8	93	603	2.28	30	-

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Model	Terminals	U _o (V)	I _o (mA)	P _o (mW)	C _o (μF)	L _o (mH)	L _o /R _o (μH/ Ω)
	2, 3	5	0.3	0.3	-	-	-
KFU8-DU-Ex1.D* KFU8-DWB-Ex1.D*	1, 3	10.1	13.5	34	79	1000	-
KFU8-UFC-Ex1.D* KFU8-UFT-Ex2.D*	1, 3 (Channel 1) 4, 6 (Channel 2)	10.1	13.5	34	79	1000	-
	1, 3 and 4, 6 (Parallel)	10.1	27	68	79	600	-

The above parameters for capacitance and inductance apply when one of the two conditions below is met:

- The total L_i of the external circuit (excluding the cable) is < 1% of the L_o value or
- The total C_i of the external circuit (excluding the cable) is < 1% of the C_o value.

The above parameters for capacitance and inductance are reduced to 50% when both of the two conditions below are met:

- the total L_i of the external circuit (excluding the cable) > 1% of the L_o value and
- the total C_i of the external circuit (excluding the cable) > 1% of the C_o value.

Note: the reduced capacitance of the external circuit (including cable) shall not be greater than 1μF.

Input parameters:

Model	Terminals	U _i (V)	I _i (mA)	P _i (mW)	C _i (μF)	L _i (mH)
KFD0-RO-EX2*	1, 2, 3 (Channel 1) 4, 5, 6 (Channel 2)	60	2000	-	negligible	negligible
KFD2-CRG2-Ex1.D*	2, 3	30	115		negligible	negligible
KFU8-CRG2-Ex1.D*	2, 3	30	115		negligible	negligible

Specific Conditions of Use:

For Model KFD0-CS-Ex*.50P/51P:

- The KFD0-CS-Ex*.50P/51P device must be installed and operated in a controlled environment with at least a reduced pollution degree 2 or better and with overvoltage category I/II.

Variations included in this Issue

- New Manufacturing Location is added as under
Pepperl+Fuchs Co. Ltd.
Lot S 12-16a, Street 20 Tan Thuan EPZ
Ward Tan Thuan Dong, District 7
Ho Chi Minh City
Vietnam
- Applicants Name and address has changed from
Pepperl+Fuchs (Aust) Pty Ltd
131-149 Link Drive

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Campbellfield
Melbourne VIC 3061
Australia

To
Pepperl+Fuchs SE
Lilienthalstrasse 200
68307 Mannheim
Germany

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs:	All Test Reports relevant to Issue 0 are valid, No new TR issued
QAR No. & Issuing CB:	DE/PTB/QAR06.0008/21 PTB
File Reference:	2025/003582

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Manufacturer's Documents/Drawings associated with this issue: it is same as Issue 0

Document/Drawing Title	Document/Drawing Number	Pages / Sheets	Revision	Date
Instructions KFD2-***-Ex* (Various KF-devices)	266-0002TE-09	2	-	2017-11-06
Type Label KFD2-***-Ex* (Various KF-devices) (Marking Label)	266-0002TE-10	1	-	2017-11-06
KFD0-CS-Ex*.50P/51P				
Schematic	266-003BS-01C	1	C	2013-04-24
(Relevant) Components	266-003BS-02A	11	A	2015-03-04
Component overlay	266-003BS-03C	1	C	2013-04-24
PCB details (Layouts)	266-003BS-05C	8	C	2013-04-24
Schematic	266-003BS-01D	4	D	2017-03-27
Safety Relevant Components	266-003BS-02D	4	D	2017-02-08
Component Overlays	266-003BS-03D	2	D	2017-03-27
Mechanical Parts	16-0706IE-04D	14	D	2016-03-30
PCB details (Layouts)	266-003BS-05D	4	D	2017-03-27
Transformer details	266-003BS-06D	4	D	2016-12-14
KFD2-CD-Ex1.32-**				
Summary	266-002BS	1	C	2015-12-16
Schematic	266-002BS-01	2	Original	2004-10-01
Components (BOM)	266-002BS-02	5	A	2015-11-04
Component Overlay	266-002BS-03	1	A	2010-09-15
PCB Layout	266-002BS-05	1-8 of 11	A	2010-09-15
Transformer PCB	266-002BS-05	11 of 11	A	2010-09-15
Transformer Details	266-002BS-06	4	A	2015-11-12
Mechanical Parts	16-0706IE-04	14	C	2014-03-27
PCB Lacquering Details	266-0002TE-07	2	Original	2017-10-26
KFD2-CD2-Ex* & KFD2-SCD2-Ex*.LK				
Circuit Diagram	251-0416	3	D	2002-09-17
PCB Master	255-1472	9	J	2002-09-18
PCB Lacquering Details	257-0224	2	C	2003-11-04
Component Overlay (Ref.)	253-0239	2	G	2002-09-18
Parts List Planar transformer type 256-0127	252-1258	1	B	2000-08-16

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Parts List Planar transformer type 256-0128	252-1289	1	B	2000-08-16
Parts List Planar transformer type 256-0129	252-1290	1	B	2000-08-16
Parts List Planar transformer type 256-0130	252-1291	1	B	2000-08-16
Parts List Planar transformer type 256-0131	252-1292	1	B	2000-08-16
Parts List Planar transformer type 256-0132	252-1293	1	B	2000-08-16
Parts List Planar transformer type 256-0133	252-1294	1	B	2000-08-16
Parts List Planar transformer type 256-0134	252-1295	1	B	2000-08-16
Assembly details for transformer - 256-0127	256-0127	1	A	2000-05-17
Assembly details for transformer - 256-0128	256-0128	1	A	2000-05-17
Assembly details for transformer - 256-0129	256-0129	1	A	2000-05-17
Assembly details for transformer - 256-0130	256-0130	1	A	2000-05-17
Assembly details for transformer - 256-0131	256-0131	1	A	2000-05-17
Assembly details for transformer - 256-0132	256-0132	1	A	2000-05-17
Assembly details for transformer - 256-0133	256-0133	1	A	2000-05-17
Assembly details for transformer - 256-0134	256-0134	1	A	2000-05-17
PCB Master for planar transformer 12 turns, 8 Layers	255-1478	17	C	2002-02-25
General assembly for planar transformers	254-0301	2	C	2001-06-29
Creepage distance details for planar transformer	254-0303	1	A	2000-05-23
Mounting Plate	04-ADN2	2	G	2003-01-16
Detail of sideplate holes for switches	254-5003	1	Original	2002-10-04
Circuit Diagram for KFD2-SCD2-Ex1.LK	251-5040	2	Original	2002-09-30
PCB lacquering details for KFD2-SCD2-Ex1.LK	257-5062	2	Original	2003-11-04
Component Overlay for KFD2-SCD2-Ex1.LK	253-5042	2	Original	2002-10-02
Circuit Diagram for KFD2-CD2-Ex1	251-5042	2	Original	2002-10-03
PCB lacquering details for KFD2-CD2-Ex1	257-5064	2	Original	2003-11-06
Component Overlay for KFD2-CD2-Ex1	253-5044	2	Original	2002-10-02
Circuit Diagram for KFD2-CD2-Ex2	251-5041	3	Original	2002-09-30
PCB lacquering details for KFD2-CD2-Ex2	257-5063	2	Original	2003-11-05
Component Overlay for KFD2-CD2-Ex2	253-5043	2	Original	2002-10-02
Planar Transformer	266-036BS-05	31	Original	2007-02-26
Mechanical Parts	266-010BS-04	15	E	2014-03-27
Relevant Components	266-036BS-02	5	L	2015-12-16

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Document/Drawing Title	Document/Drawing Number	Pages / Sheets	Revision	Date
KFD2-SR3-Ex2.2S*				
Summary	16-1224EX	1	-	2015-09-28
Description, Calculations	16-1224EX-00	9	-	2015-09-28
Schematics Drawing	16-1224EX-01	2	-	2015-09-28
Relevant Components	16-1224EX-02	7	-	2015-09-28
Component Set-Up	16-1224EX-03	2	-	2015-09-28
Mechanical Parts	16-1224EX-04	2	-	2015-09-28
PCB Layouts, Multilayer	16-1224EX-05	4	-	2015-09-28
Transformer	16-1224EX-06	2	-	2015-09-28
Test Report	16-1224EX-13	2	-	2015-09-28
KFD2-CRG2-Ex1.D* & KFU8-CRG2-Ex1.D*				
KF-housing (5 plug stripes)	16-253PT-09	1	A	1997-04-29
KF-housing	16-253PT-13	1	A	1997-04-29
KF-housing	16-253PT-14	1	A	1997-04-29
KF-housing	16-253PT-15	1	B	1997-04-29
KF-housing	16-253PT-26	1	0	1997-11-07
KF-housing	16-253PT-28	1	0	1997-11-10
KF-housing asym. (5 plug stripes)	16-253PT-29	1	0	1999-02-12
KF-housing asym. (5 plug stripes)	16-253PT-30	1	0	1999-02-12
Summary KF**-CRG2-Ex1**	16-554TV	1	-	2008-04-04
Description KF**-CRG*-Ex1.**	16-554TV-00	15	-	2008-04-01
Schematic KF**-CRG2-Ex1.* *** CRG2 - Amplifier	16-554TV-01	8	-	2008-04-02
Relevant Components	16-554TV-02	2	-	2008-04-02
Set up (PCB Overlay)	16-554TV-03	7	-	2008-04-03
Layout	16-554TV-05	8	-	2008-04-03
Lacquering KF**-CRG2-Ex1**	16-554TV-07	3	-	2008-04-04
Description Summary KF**-CRG2-Ex1.D	16-554TV B	1	B	2013-10-21
Description KF**-CRG2-Ex1.D	16-554TV-00B	3	B	2013-10-21
Checklist – General explosive gas atmospheres	16-0554TV-47	3	-	2012-07-11
Checklist for explosive atmospheres	16-0554TV-47A	3	A	2013-04-24
Checklist – EN 60079-11:2012	16-0554TV-47B	3	B	2013-10-21
KFD2-UFC-Ex1.D*, KFD2-UFT-Ex2.D*, KFU8-UFC-Ex1.D*, KFU8-UFT-Ex2.D*				

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Description	16-532TV-00	25	-	2006-09-08
Schematics UFC – Amplifier PCB	16-532TV-01	13	-	2006-07-03
Safety Relevant Components	16-532TV-02	2	-	2006-09-05
UFT Amplifier PCB SMD (PCB Layout)	16-532TV-03	9	-	2006-06-30
Mechanical Parts	16-532TV-04	1 of 11	-	2006-04-19
Mechanical Parts	16-538TV-04	2 - 11	-	2006-04-19
UFT/UFC Amplifier PCB (layout)	16-532TV-05	14	-	2006-06-27
Mains Transformer	16-532TV-06	5	-	2006-05-09
Assembling	16-532TV-07	4	-	2006-06-30
Test Reports (Transformer)	16-532TV-13	10	-	2006-04-04
Description	16-532TV-00B	1	B	2009-07-08
Schematics UFT – Amplifier	16-532TV-01B	8	B	2009-07-30
Set up (PCB overlay Amplifier)	16-532TV-03B	4	B	2009-07-30
PCB Layout (Amplifier)	16-532TV-05B	4	B	2009-07-30
Description	16-532TV-00C	1	C	2014-02-20
Checklist – General explosive gas atmospheres	16-0532TV-47C	3	C	2012-07-11
Checklist for explosive atmospheres	16-0532TV-47D	5	D	2014-02-20
KFD2-SL2-Ex1*, KFD2-SL2-Ex1.B*, KFD2-SL2-Ex2*, KFD2-SL2-Ex2.B*				
Description KFD2-SL2-Ex* and KFD2-SL2-Ex*.B	16-548FM-00	18	-	2007-02-22
Schematics KFD2-SL2-Ex2	16-548FM-01	10	-	2007-02-22
Relevant Components KFD2-SL2-Ex*.*	16-548TV-02	1	-	2007-04-17
Set up KFD2-SL2-Ex*.*	16-548FM-03	5	-	2007-02-22
Layout KFD2-SL2-Ex*.*	16-548ZE-05	4	-	2006-12-15
Transformer KFD2-SL2-Ex*.*	16-548FM-06	2	-	2007-01-15
Lacquering KFD2-SL2-Ex*.*	16-548ZE-07	3	-	2006-08-27
Test Reports KFD2-SL2-Ex*.*	16-548ZE-13	5	-	2006-11-07
Description KFD2-SL2-Ex*(.B)	16-0548TV-00B	2	B	2014-01-22
KFA*-DU-Ex1.D*, KFA*-DWB-Ex1.D*, KFD2-DU-Ex1.D*, KFD2-DWB-Ex1.D*, KFU8-DU-Ex1.D*, KFU8-DWB-Ex1.D*				
Description KF**-D**-Ex1.*.***	16-538TV-00	30	-	2006-09-08
Schematic KF**-D**-Ex1.*.***	16-538TV-01	13	-	2006-07-03
Safety Relevant Components KF**-D**-Ex1.*.***	16-538TV-02	2	-	2006-09-05
Set up KF**-D**-Ex1.*.*** (PCB Overlay)	16-538TV-03	11	-	2006-06-30

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Mechanical parts KF**-D**-Ex1.*.***	16-538TV-04	11	-	2006-04-04
Layout KF**-D**-Ex1.*.***	16-538TV-05	16	-	2006-06-27
Mains Transformer KF**-D**-Ex1.*.***	16-538TV-06	10	-	2006-05-09
Assembling KF**-D**-Ex1.*.***	16-538TV-07	5	-	2006-06-30
Test Reports KF**-D**-Ex1.*.*** (Transformer)	16-538TV-13	17	-	2006-04-04
Description KF**-D**-Ex1.*.***	16-538TV-00C	1	C	2009-07-08
Schematic (Amplifier)	16-538TV-01C	7	C	2009-07-30
Set up (Amplifier)	16-538TV-03C	4	C	2009-07-30
Layout (Amplifier)	16-538TV-05C	4	C	2009-07-30
Transformer	16-538TV-11C	2	C	2009-07-30
Test Reports	16-538TV-13C	2	C	2009-07-30
Test Report (Transformer)	PRDE-8886A	7	-	2009-07-02
Description KF**-DU/DWB-Ex1.D	16-0538TV-00D	2	D	2014-10-13
Transformer KF**-DU/DWB-Ex1.D	16-0538TV-11D	2	D	2014-01-21
Checklist – General explosive gas atmospheres KF**-D**-Ex1.D	16-0538TV-47D	3	D	2012-07-11
Checklist for explosive atmospheres – KF**-DU/DWB-Ex1.D	16-0538TV-47E	5	E	2014-08-18
KFD2-VR4-Ex1.26				
Description	266-010BS-00A	8	A	2009-06-02
Schematic	266-010BS-01A	1	A	2009-07-08
Components	266-010BS-02A	1	A	2009-07-10
Component overlay	266-010BS-03A	1	A	2009-07-08
Mechanical Parts	266-010BS-04E	15	E	2014-03-27
Printed Circuit board details	266-010BS-05A	5	A	2009-07-08
Transformers T1 & T2	266-010BS-06B	4	B	2010-08-09
Printed Circuit Board Lacquering details	266-010BS-07B	2	B	2010-08-09
KFD2-VR2-Ex1.50M/500M				
Schematic	266-012BS-01A	2	A	2008-12-02
Safety relevant components	266-012BS-02A	1	A	2009-03-04
Component overlay	266-012BS-03A	1	A	2008-12-02
Mechanical Parts	266-010BS-04E	15	E	2014-03-27
Main Printed Circuit Board	266-012BS-05A	6	A	2008-12-02
Transformer details	266-012BS-06	3	Original	2005-10-03

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Document/Drawing Title	Document/Drawing Number	Pages / Sheets	Revision	Date
KFD0-SD2-Ex Series				
Description	266-018BS-00	14	Original	2006-01-06
Schematic	266-018BS-01	7	Original	2005-11-23
Safety relevant components	266-018BS-02	5	Original	2005-12-16
Component overlay	266-018BS-03A	3	A	2008-11-18
Printed Circuit Board	266-018BS-05A	14	A	2008-11-19
Mechanical Parts	16-0706IE-04C	14	C	2014-05-27
Transformer details	266-018BS-06A	12	A	2012-02-22
KFD2-PT2-Ex1*(Y*)				
Schematic	16-0706IE-01	1	Original	2009-07-21
Component overlay	16-0706IE-03	1	Original	2009-07-21
Safety relevant components	16-0706IE-02	2	Original	2009-07-21
PCB Layout	16-0906UL-05	6	Original	2011-10-18
Mechanical Parts	16-0706IE-04C	14	C	2014-03-27
Transformer details	16-0706IE-06	4	Original	2009-07-31
PCB lacquering details	16-0706IE-07	2	Original	2009-07-22
KFD2-SR2-Ex*.W.*				
Description	16-493PT-00B	4	B	2004-06-09
Description	16-493PT-00C	1	C	2011-04-05
Description	16-493PT-00D	3	D	2014-03-05
Schematic (Version 2)	16-493PT-01D	2	D	2014-03-05
Relevant Components	16-493PT-02B	1	B	2004-06-09
Relevant Components	16-0493UL-02	1	-	13 Dec 2017
Component Set Up (Version 2 side B)	16-493PT-03B	Sheet 2 of 2	B	2004-06-02
Mechanical Parts	16-493PT-04C	8	C	2011-04-05
Mechanical Parts (relay HF118F)	16-493PT-04D	1	D	2014-03-05
Layout (Version 2)	16-493PT-05B	4	B	2004-06-02
PTB-ATEX Umschreibung (Transformer T1)	16-315PT-06A	1	A	2000-05-12
PTB-Ergänzung	16-315PT-07	5	-	2001-05-23
Lacquering	16-493PT-07D	2	D	2014-03-05
KFD0-RO-EX2*				

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IECEX Description	16-0622BV-00B	1	B	2009-11-12
Description	16-0622BV-00C	1	C	2017-03-30
Schematic	16-346BV-02	1	-	1999-11-15
Component Set Up	16-346BV-03	1	-	1999-11-15
Layout	16-346BV-04	2	-	1999-11-15
Structure	16-346BV-05	1	-	1999-11-15
Mechanical Parts	16-0622BV-04B	8	B	2009-11-12
KFD2-SL2-Ex1.LK Series				
Description	16-0562IE-00	21	-	2014-02-05
Schematics	16-0562ZE-01C	1	C	2013-07-16
Relevant Components	16-0562ZE-02C	6	C	2013-07-16
Component set-up	16-0562ZE-03C	3	C	2013-07-16
Layout	16-0562ZE-05C	4	C	2013-07-16
Housing KF -15pol. symm.	16-345-11	8	-	1999-08-12
Transformer	16-548ZE-06	2	-	2006-12-15
Lacquering top + bottom - side	16-562ZE-07B	1	B	2008-06-11

Note: An * is included before the title of documents that are new or revised.

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Register of Issues and Variations

includes the current issue

Issue 0 dated 2018-02-21

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs:

HR/EXA/ExTR16.0003/00; Ex-Agencija

UK/BAS/04/0751, GB/BAS/ExTR10.0289/00, GB/BAS/ExTR15.0023/00,

GB/BAS/ExTR16.0291/00; Baseefa

UK/BAS/03/1011, GB/BAS/ExTR07.0143/00, GB/BAS/ExTR09.0170/00,

GB/BAS/ExTR14.0292/00, GB/BAS/ExTR16.0291/00; Baseefa

UK/BAS/04/0786, GB/BAS/ExTR06.0126/00, GB/BAS/ExTR09.0057/00,

GB/BAS/ExTR16.0090/00, GB/BAS/ExTR17.0061/00; Baseefa

GB/BAS/ExTR08.0264/00, GB/BAS/ExTR10.0184/00,

GB/BAS/ExTR15.0021/00; Baseefa

GB/BAS/ExTR06.0009/00, GB/BAS/ExTR09.0009/00,

GB/BAS/ExTR15.0021/00; Baseefa

GB/BAS/ExTR06.0100/00, GB/BAS/ExTR12.0196/00,

GB/BAS/ExTR15.0022/00; Baseefa

GB/BAS/ExTR10.0125/00, GB/BAS/ExTR12.0163/00,

GB/BAS/ExTR15.0020/00; Baseefa

DE/PTB/ExTR11.0049/00, DE/PTB/ExTR11.0049/01; PTB

DE/BVS/ExTR10.0036/00; DE/BVS/ExTR10.0036/01; DEKRA

DE/ZLM/ExTR14.0001/00; ZELM

DE/TUN/ExTR09.0008/00, DE/TUN/ExTR09.0008/01; TUV

DE/TUN/03PX19690, DE/TUN/ExTR06.0053/00 (06TUN553321),

DE/TUN/ExTR06.0053/01, DE/TUN/ExTR06.0053/02; TUV

DE/TUN/ExTR07.0013/00, DE/TUN/ExTR14.0039/00; TUV

DE/TUN/03PX06200, DE/TUN/ExTR06.0054/00 (06TUN553052),

DE/TUN/ExTR06.0054/01, DE/TUN/ExTR06.0054/02; TUV

36110, TestSafe

QAR No. & Issuing CB:

DE/PTB/QAR06.0008/08 (17-26250-1) PTB

File Reference:

2017/012551