

## Certificate of Conformity EX EQUIPMENT

| Certificate No.: AN                  | IZEx 13.2004X                                                                                 | Current Issue: 1                                | Date of Issue:  | 2022-09-15 |
|--------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------|------------|
| Applicant:                           | <b>Pepperl+Fuchs SE</b><br>Lilienthalstrasse 200<br>68307 Mannheim<br>GERMANY                 |                                                 |                 |            |
| Equipment:                           | KFD2-STC(V)4-Ex1(.2                                                                           | 2O) Smart Transmitte                            | er Isolator     |            |
| Type of Explosion<br>Protection:     | Intrinsic Safety "i"                                                                          |                                                 |                 |            |
| Explosion<br>Protection Marking:     | [Ex ia Ma] I<br>-20 °C ≤ Ta ≤ +60 °C                                                          |                                                 |                 |            |
| Join                                 | his certificate is granted su<br>at Accreditation System of A<br>System Rules 2020 & ANZ      | Australia and New Zealar                        | nd Publications | 1          |
| Signed for and on beha               |                                                                                               |                                                 |                 |            |
| This certificate is not transferable | Name & Position<br>and remains the property of the iss<br>be confirmed through the database l |                                                 | fication        |            |
| <u>Certificate iss</u>               | Safety in Mines, T                                                                            | Festing and Research S<br>Street, REDBANK QLD 4 |                 |            |
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|----------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|------------|
| Manufacturer :                                                 | <b>Pepperl+Fuchs SE</b><br>Lilienthalstrasse 200<br>68307 Mannheim<br>GERMANY    |                                           |                               |            |
| Additional<br>Manufacturing<br>Location(s):                    | Pepperl+Fuchs Asia Pa<br>18 Ayer Rajah Crescent<br>Singapore 139942<br>SINGAPORE |                                           |                               |            |
| STANDARDS:                                                     |                                                                                  |                                           |                               |            |
|                                                                | eptable variations to it specifi<br>mply with the following stand                |                                           | ertificate and the identified |            |
| IEC 60079-0:2011 Ed 6.0                                        | Explosive atmospheres Part 0                                                     | : Equipment—General requiren              | nents                         |            |
| IEC 60079-11:2011 Ed 6.0                                       | Explosive atmospheres Part 1                                                     | 1: Equipment protection by intri          | nsic safety "i"               |            |
| This Certificate does not ind<br>included in the Standards lis | icate compliance with safety<br>ted above.                                       | and performance requireme                 | nts other than those expre    | essly      |
| JAS-ANZ                                                        |                                                                                  | 2 of 10<br>may only be reproduced in full | Si                            | mtars      |



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### Schedule

### **Equipment Description:**

The KFD2-STC(V)4-Ex1(.2O)... Smart Transmitter Isolator is designed to provide galvanic isolation between intrinsically safe circuits in a hazardous area and circuits in a safe area and limit voltage and current into the hazardous area to intrinsically safe levels.

The apparatus comprises a number of electrical 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 use of 'C' or 'V' in the type description specifies Current source / sink or Voltage respectively.

Options following 'Ex1' in the type description are:

.20 (Dual non-hazardous area output)

-Y... (Current sink - used with 'C')

-1 (5 Volt - used with 'V')

-2 (10 Volt - used with 'V')

The apparatus is designed to operate from a DC supply of up to 35V on terminals 7 to 12, 14 and 15, and power rail connector terminals 1 and 2. The segregation of the hazardous area circuits meets the requirements for 250V.

### **Electrical Ratings/Parameters**

Nil

### **Specific Conditions of Use:**

1. The safety device must be installed in a controlled environment with suitably reduced pollution.

### **Conditions of Certification:**

None

### **Additional Information:**

The following entity parameters shall be observed:

### Type KFD2-STC(V)4-Ex1. and Type KFD2-STC(V)4-Ex1.2O

For terminals 7 to 12, 14 and 15, and power rail terminals 1 & 2: Um = 250V



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For Terminals 1 and 3:

Uo = 25.4 V Io = 86.8 mA Po = 551 mW Ci = 12 nF Li = 0

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area load must not exceed the following values:

| Group | Group Capacitance<br>(μF) |    | L/R Ratio<br>(μΗ/Ω) |  |
|-------|---------------------------|----|---------------------|--|
| I     | 4.3                       | 29 | 833                 |  |

For Terminals 3 and 2 (& 5):

Uo = 3.5 V Io = 74 mA Po = 64 mW Ui = 30 V Ii = 115 mA Ci = 0 Li = 0

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area load must not exceed the following values:

| Group | Capacitance | Inductance | L/R Ratio |
|-------|-------------|------------|-----------|
|       | (µF)        | (mH)       | (μΗ/Ω)    |
| I     | 1000        | 421        | 7207      |

For Terminals 1, 2 (& 5) and 3:

Uo = 25.4 V lo = 115 mA Po = 0.584 W Ci = 12 nF Li = 0

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area load must not exceed the following values:

| Group | Capacitance | Inductance | L/R Ratio |
|-------|-------------|------------|-----------|
|       | (µF)        | (mH)       | (μΗ/Ω)    |
| I     | 4.3         | 17         | 639       |

For Terminals 6 and 5 (&2):

Uo = 8.7 V Io = 0 Co = 5.9 µF Ui = 30 V Ii = 115 mA Ci = 0 Li = 0

Type KFD2-STC4-Ex1.H and Type KFD2-STC4-Ex1.2O.H

For terminals 7 to 12, 14 and 15, and power rail terminals 1 & 2:

Um = 250 V

For Terminals 1 and 3:

Uo = 27.2 V Io = 93 mA Po = 0.632 W Ci = 12 nF Li = 0

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area load must not exceed the following values:



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| Group | Capacitance | Inductance | L/R Ratio |
|-------|-------------|------------|-----------|
|       | (μF)        | (mH)       | (μΗ/Ω)    |
| I     | 4.0         | 51.9       | 687       |

For Terminals 3 and 2 (& 5):

Uo = 3.5 V Io = 73 mA Po = 64 mW Ui = 30 V Ii = 117 mA Ci = 0 Li = 0

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area load must not exceed the following values:

| Group | Capacitance | Inductance | L/R Ratio |  |
|-------|-------------|------------|-----------|--|
|       | (µF)        | (mH)       | (μΗ/Ω)    |  |
| I     | 1000        | 42         | 7207      |  |

For Terminals 1, 2 (& 5) and 3:

Uo = 27.2 V Io = 117 mA Po = 0.639 W Ci = 12 nF Li = 0

The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area load must not exceed the following values:

| Group | Capacitance | Inductance | L/R Ratio |
|-------|-------------|------------|-----------|
|       | (µF)        | (mH)       | (μΗ/Ω)    |
| Ι     | 4.0         | 30         | 409       |

For Terminals 6 and 5 (&2):

Uo = 8.7V Io = 0 Co = 5.9µF Ui = 30V Ii = 117mA Ci = 0 Li = 0

Notes:

The above load parameters apply when one of the two conditions below is given:

- the total Li of the external circuit (excluding the cable) is < 1% of the Lo value or
- the total Ci of the external circuit (excluding the cable) is < 1% of the Co value.

The above parameters are reduced to 50% when both of the two conditions below are given:

• the total Li of the external circuit (excluding the cable) is  $\geq$  1% of the Lo value and

• the total Ci of the external circuit (excluding the cable) is  $\geq$  1% of the Co value.

Routine testing of the transformer shall be carried out in accordance with clause 11.2 of IEC 60079-11: 2006.







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|-----------------------------------------------------------------|-------------------------|------------------------------------------------------------|-----------------------------------------|---------------------|------------|------------|
| Register of Issues and Variations<br>includes the current issue |                         |                                                            |                                         |                     |            |            |
| <u>Issue 0 dated 2013-0</u>                                     | 2-25                    |                                                            |                                         |                     |            |            |
| <u>Standards relevant for</u>                                   | r this issue            | <u>):</u>                                                  |                                         |                     |            |            |
| IEC 60079-0:2007 Ed 5                                           | 5.0 Exp                 | losive atmospheres Pa                                      | nt 0: Equipment—General requi           | rements             |            |            |
| IEC 60079-11:2006 Ed                                            | 5.0 Exp                 | losive atmospheres Pa                                      | rt 11: Equipment protection by i        | ntrinsic safety "i" |            |            |
| <u>Test &amp; Assessment R</u>                                  | eports rele             | evant for this issue                                       | <u>:</u>                                |                     |            |            |
| TR No. & Issuing CB                                             | GB                      | /BAS/03/1051, UK/B<br>/BAS/ExTR10.0301/<br>3/0002; Simtars | AS/04/0566, GB/BAS/ExTR(<br>00; Baseefa | 06.0084/00, GB/E    | BAS/ExTR08 | 3.0046/00, |
| QAR No. & Issuing C                                             |                         |                                                            | 3, DE/PTB/QAR06.0008/05;                | РТВ                 |            |            |
| File Reference:                                                 | File Reference: 12/0126 |                                                            |                                         |                     |            |            |
|                                                                 |                         |                                                            |                                         |                     |            |            |
| Manufacturer's Docun                                            | nents/Drav              | wings associated v                                         | <u>vith this issue:</u>                 |                     |            |            |
| Document Number                                                 | Pages /                 |                                                            | Document Title                          |                     | Revision   | Date       |

| Document Number        | Pages /<br>Sheets | Document Title              | Revision | Date        |
|------------------------|-------------------|-----------------------------|----------|-------------|
| 266-014BS-01S          | 4                 | Schematic                   | S        | 2010-Oct-14 |
|                        |                   | KFD2-CR4-Ex1(.20)           |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.20)       |          |             |
| 266-014BS-02A          | 9                 | Components                  | А        | 2006-May-15 |
|                        |                   | KFD2-CR4-Ex1(.2O) &         |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.20)(.H)   |          |             |
| 266-014BS-03S          | 1                 | Assembly –top               | S        | 2010-Oct-14 |
| (Sheet 1 of 2)         |                   | KFD2-CR4-Ex1(.20)           |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.20)       |          |             |
| 266-014BS-03S          | 1                 | Assembly –bottom            | S        | 2010-Oct-14 |
| (Sheet 2 of 2)         |                   | KFD2-CR4-Ex1(.20)           |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.20)       |          |             |
| 266-014BS-04S          | 2                 | Moulded Transformer Housing | S        | 2010-Oct-14 |
| (Sheets 1 and 2 of 14) |                   | KFD2-CR4-Ex1(.20)           |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.20)(.H)   |          |             |
| 266-014BS-04S          | 2                 | Toroidal Housing            | S        | 2010-Oct-14 |
| (Sheets 3 and 4 of 14) |                   | KFD2-CR4-Ex1(.20)           |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.20)(.H)   |          |             |



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| Document Number        | Pages /<br>Sheets |                           | Document Title                                                |             | Revision | Date        |
| 266-014BS-04S          | 10                |                           | KF – Housing 15 Term.                                         |             | S        | 2010-Oct-14 |
| (Sheets 5 to 14 of 14) |                   | KFI                       | KFD2-CR4-Ex1(.2O)<br>D2-STC(V)4-Ex1(.2O)(.H)                  |             |          |             |
| 266-014BS-05S          | 5                 | Ν                         | Aain Printed Circuit Board                                    |             | S        | 2010-Oct-14 |
| (Sheets 1 to 5 of 8)   |                   | KFI                       | KFD2-CR4-Ex1(.20)<br>D2-STC(V)4-Ex1(.20)(.H)                  |             |          |             |
| 266-014BS-05S          | 1                 | Tran                      | sformer mounting plinth PCB                                   |             | S        | 2010-Oct-14 |
| (Sheet 6 of 8)         |                   | KFI                       | KFD2-CR4-Ex1(.20)<br>D2-STC(V)4-Ex1(.20)(.H)                  |             |          |             |
| 266-014BS-05S          | 1                 | Ze                        | ner diode 6-way array PCB                                     |             | S        | 2010-Oct-14 |
| (Sheet 7 of 8)         |                   |                           | KFD2-CR4-Ex1(.20)                                             |             |          |             |
|                        |                   | KFI                       | D2-STC(V)4-Ex1(.2O)(.H)                                       |             |          |             |
| 266-014BS-05S          | 1                 | Ze                        | ner diode 4-way array PCB                                     |             | S        | 2010-Oct-14 |
| (Sheet 8 of 8)         |                   |                           | KFD2-CR4-Ex1(.20)                                             |             |          |             |
|                        |                   | KFD2-STC(V)4-Ex1(.2O)(.H) |                                                               |             |          |             |
| 266-014BS-06S          | 2                 | Trans                     | former details for T101 & T201                                |             | S        | 2010-Oct-14 |
| (Sheets 1 and 2 of 6)  |                   |                           | KFD2-CR4-Ex1(.20)                                             |             |          |             |
|                        |                   | К                         | FD2-STC(V)4-Ex1(.20)                                          |             |          |             |
| 266-014BS-06S          | 2                 | Trans                     | former details for T102 & 202                                 |             | S        | 2010-Oct-14 |
| (Sheets 3 and 4 of 6)  |                   |                           | KFD2-CR4-Ex1.20                                               |             |          |             |
|                        |                   | ł                         | <pre><fd2-stc(v)4-ex1.20< pre=""></fd2-stc(v)4-ex1.20<></pre> |             |          |             |
| 266-014BS-06S          | 2                 | Tr                        | ansformer details for T102                                    |             | S        | 2010-Oct-14 |
| (Sheets 5 and 6 of 6)  |                   |                           | KFD2-CR4-Ex1                                                  |             |          |             |
|                        |                   |                           | KFD2-STC(V)4-Ex1                                              |             |          |             |
| 266-014BS-07S          | 2                 | Printed                   | Circuit Board Lacquering details                              | 5           | S        | 2010-Oct-14 |
|                        |                   | ŀ                         | <pre>KFD2-CR4-Ex1(.20) &amp;</pre>                            |             |          |             |
|                        |                   | KFI                       | D2-STC(V)4-Ex1(.2O)(.H)                                       |             |          |             |
| 266-0014SI-10          | 2                 |                           | Type Label                                                    |             | -        | 2013-Feb-20 |
|                        |                   | KF                        | FD2-STC(V)4-Ex1(.2)(.H)                                       |             |          |             |

### Issue 1 dated 2022-09-15

### Variations Permitted by this Issue

- Update editions of the standards
- Changes to the transformer
- Use of an alternative fuse



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- Addition of an 'X' suffix to the certificate number for the condition "The safety device must be installed in a controlled environment with suitably reduced pollution" due to the removal of the conformal coating
- Modification of Applicant and Manufacturer names to show current legal form

Standards relevant for this issue:

| IEC 60079-0:2011 Ed 6.0 | Explosive atmospheres Part 0: Equipment—General requirements |
|-------------------------|--------------------------------------------------------------|
|-------------------------|--------------------------------------------------------------|

IEC 60079-11:2011 Ed 6.0 Explosive atmospheres Part 11: Equipment protection by intrinsic safety "i"

Test & Assessment Reports relevant for this issue:

| TR No. & Issuing CBs: | GB/BAS/ExTR14.0292/00, GB/BAS/ExTR15.0306/00, GB/BAS/ExTR16.0291/00;<br>BASEEFA |
|-----------------------|---------------------------------------------------------------------------------|
| QAR No. & Issuing CB: | DE/PTB/QAR06.0008/16 - PTB                                                      |
| File Reference:       | 060041Audit                                                                     |

Manufacturer's Documents/Drawings associated with this issue:

| Document Number       | Pages /               | Document Title                                 | Revision | Date        |  |  |  |
|-----------------------|-----------------------|------------------------------------------------|----------|-------------|--|--|--|
|                       | Sheets                |                                                |          |             |  |  |  |
|                       | GB/BAS/ExTR14.0292/00 |                                                |          |             |  |  |  |
| 266-015IE-F           | 1                     | Summary                                        | -        | 2014-May-12 |  |  |  |
|                       |                       | KFD2-CR4-Ex1(.20) & KFD2-STC(V)4-Ex1(.20)      |          |             |  |  |  |
| 266-010BS-04E         | 1                     | Mechanical parts                               | -        | 2014-Mar-27 |  |  |  |
| (Sheet 1 of 15)       |                       | Moulded Transformer Housing - base             |          |             |  |  |  |
| 266-010BS-04E         | 1                     | Mechanical parts                               | -        | 2014-Mar-27 |  |  |  |
| (Sheet 2 of 15)       |                       | Moulded Transformer Housing – alternative base |          |             |  |  |  |
| 266-010BS-04E         | 1                     | Mechanical parts                               | -        | 2014-Mar-27 |  |  |  |
| (Sheet 3 of 15)       |                       | Moulded Transformer Housing – cover            |          |             |  |  |  |
| 266-010BS-04E         | 2                     | Mechanical parts                               | -        | 2014-Mar-27 |  |  |  |
| (Sheet 4 and 5 of 15) |                       | Transformer – Toroidal Housing                 |          |             |  |  |  |
| 266-010BS-04E         | 10                    | Mechanical parts                               | -        | 2014-Mar-27 |  |  |  |
| (Sheet 6 to 15 of 15) |                       | KF – Housing 15 Term. Asymm                    |          |             |  |  |  |
| 266-014BS-10T         | 3                     | Type Label                                     | -        | 2014-May-12 |  |  |  |
|                       |                       | KFD2-STC(V)4-Ex1(.20)                          |          |             |  |  |  |
| GB/BAS/ExTR15.0306/00 |                       |                                                |          |             |  |  |  |
| 266-015IE-G           | 1                     | Summary                                        | -        | 2015-Oct-15 |  |  |  |
|                       |                       | KFD2-CR4-Ex1(.20) & KFD2-STC(V)4-Ex1(.20)      |          |             |  |  |  |



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| Document Number                         | Pages /<br>Sheets |                                                                                  | Document Title                                                     |             | Revision    | Date        |
| 266-014BS-02U                           | 9                 | KFD2-STC(V)4                                                                     | Components<br>4-Ex1(.2O) & KFD2-STC(V)4-Ex                         | 1(.2O)(.H)  | -           | 2015-Oct-15 |
|                                         | •                 | GI                                                                               | B/BAS/ExTR16.0291/00                                               |             | •           |             |
| 266-014BS-V                             | 1                 | KFD2-CR4-E                                                                       | Summary<br>Ex1(.2O) & KFD2-STC(V)4-Ex1(.                           | 2O)(,H)     | -           | 2016-Sep-15 |
| 266-014BS-01V                           | 4                 | KFD2-CR4                                                                         | Schematic<br>-Ex1(.2O) & KFD2-STC(V)4-Ex1                          | (.20)       | -           | 2015-Dec-10 |
| 266-014BS-02V                           | 2                 |                                                                                  | Safety Relevant Components<br>Ex1(.20) & KFD2-STC(V)4-Ex1(.        | 2O)(.H)     | -           | 2016-Sep-15 |
| 266-014BS-03V<br>(Sheet 1 of 2)         | 1                 | KFD2-CR4                                                                         | Assembly -top<br>I-Ex1(.2O) & KFD2-STC(V)4-Ex1                     | (.20)       | -           | 2016-Mar-23 |
| 266-014BS-03V<br>(Sheet 2 of 2)         | 1                 | KFD2-CR4                                                                         | Assembly -bottom<br>KFD2-CR4-Ex1(.20) & KFD2-STC(V)4-Ex1(.20)      |             |             | 2016-Mar-23 |
| 266-010BS-04F<br>(Sheet 1 of 15)        | 1                 | Mechanical parts<br>Moulded Transformer Housing - base                           |                                                                    |             | -           | 2016-Mar-23 |
| 266-010BS-04F<br>(Sheet 2 of 15)        | 1                 | Moulded <sup>-</sup>                                                             | Mechanical parts<br>Moulded Transformer Housing – alternative base |             |             | 2016-Mar-23 |
| 266-010BS-04F<br>(Sheet 3 of 15)        | 1                 | Mou                                                                              | Mechanical parts<br>Moulded Transformer Housing – cover            |             |             | 2016-Mar-23 |
| 266-010BS-04F<br>(Sheets 4 and 5 of 15) | 2                 | т                                                                                | Mechanical parts<br>Transformer – Toroidal Housing                 |             |             | 2016-Mar-23 |
| 266-010BS-04F<br>(Sheets 6 to 15 of 15) | 10                | Mechanical parts<br>KF – Housing 15 Term. Asymm                                  |                                                                    |             | -           | 2016-Mar-23 |
| 266-014BS-05V<br>(Sheets 1 to 5 of 6)   | 5                 | Main Printed Circuit Board<br>KFD2-CR4-Ex1(.20) & KFD2-STC(V)4-Ex1(.20)(.H)      |                                                                    |             | -           | 2016-Mar-23 |
| 266-014BS-05V<br>(Sheet 6 of 6)         | 1                 | Zener diode 4-way array PCB<br>KFD2-CR4-Ex1(.20) & KFD2-STC(V)4-Ex1(.20)(.H)     |                                                                    |             | -           | 2016-Mar-23 |
| 266-014BS-06V<br>(Sheets 1 and 2 of 6)  | 2                 | Transformer details for T101 & T201<br>KFD2-CR4-Ex1(.2O) & KFD2-STC(V)4-Ex1(.2O) |                                                                    |             | -           | 2016-Sep-15 |
| 266-014BS-06V<br>(Sheets 3 and 4 of 6)  | 2                 | Transformer details for T102 & T202<br>KFD2-CR4-Ex1(.20) & KFD2-STC(V)4-Ex1(.20) |                                                                    |             | -           | 2016-Sep-15 |
| 266-014BS-06V<br>(Sheets 5 and 6 of 6)  | 2                 | Transformer details for T102<br>KFD2-CR4-Ex1 & KFD2-STC(V)4-Ex1                  |                                                                    | -           | 2016-Sep-15 |             |



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| Document Number          | Pages /<br>Sheets        | Document Title                        | Revision       | Date        |
|                          |                          |                                       |                |             |
| 266-0014SI-10A           | 1                        | Type Label                            | -              | 2022-Sep-02 |
|                          |                          | KFD2-STC(V)4-Ex1(.2)(.H)              |                |             |
|                          |                          |                                       |                |             |
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