

Certificate Number
Baseefa09ATEX0219X
Issue 2



Issued 10 April 2018
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Schedule

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Certificate Number Baseefa09ATEX219X – Issue 2

15 Description of Product

The Type KFD2-VR2-Ex1.50M/500M Transformer Isolated Voltage Repeater is designed to provide a galvanically isolated interface to enable the transmission of a low voltage analogue signal from the hazardous area into the non-hazardous area.

The Type KFD2-VR2-Ex1.50M/500M Transformer Isolated Voltage Repeater comprises a number of electrical components, including two isolating transformers, fuses, resistors and zener diodes all mounted onto a single printed circuit board (PCB) and housed within a plastic enclosure with plug-in terminals.

The Transformer Isolated Voltage Repeater Type KFD2-VR2-Ex1.50M/500M may be installed in hazardous areas that require Category 3 equipment.

Electrical data

Supply circuit:

(Terminals 14[+], 15[-] or
 Power Rail Contacts)

$U_i = 15 - 30V$ dc

Output:

(Terminals 7[+], 8[-])

0 – $\pm 50mV$ or
 0 – $\pm 500mV$

Input:

(Terminals 4[+], 5[-])

0 – $\pm 50mV$ or
 0 – $\pm 500mV$ or

The maximum values for the intrinsically safe circuits have to be taken from Baseefa06ATEX0040.

16 Report Number

See Certificate History

17 Specific Conditions of Use

1. The Type KFD2-VR2-Ex1.50M/500M Transformer Isolated Voltage Repeater must be installed in a suitably certified enclosure such that it is afforded a degree of protection of at least IP54 in accordance with EN 60079-0, EN 60079-7 & EN 60529 and is in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. The maximum values for the intrinsically safe circuits have to be taken from the EU-Type Examination Certificate Baseefa06ATEX0040.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

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19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
266-012BS-C	1 of 1	C	2017-Sep-20	Summary
266-012UL-02B	1 – 6	B	2017-Sep-20	Relevant components for Div 2 / Zone 2
266-010BS-04F	1 – 15	F	2016-Mar-23	Mechanical Parts
266-012BS-06A	1 & 2	A	2017-Sep-20	Transformer details
266-012BS-10C	1 – 3	C	2017-Sep-20	Type Label

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
266-012BS-01A	1 & 2	A	02-12-08	Schematic
266-012BS-03A	1 of 1	A	02-12-08	Component overlay
266-012BS-05A	1 – 6	A	02-12-08	Main printed circuit board

These drawings are common to, and held with, IECEx BAS 09.0103X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa09ATEX0219X	29 September 2009	The release of the prime certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR09.0149/00. Project File No. 08/0921.
Baseefa09ATEX0219X Issue 1	7 July 2015	To permit changes to the transformer and confirms the current design meets the requirements of EN 60079-0: 2012+A11:2013 and EN 60079-15: 2010 including the revision of the marking in accordance with these standards. The equipment is now marked Ex nA II T4 Gc (-20°C ≤ Ta ≤ +60°C) Test Report No. GB/BAS/ExTR15.0021/00. Project File No. 15/0067.
Baseefa09ATEX0219X Issue 2	10 April 2018	To permit minor electrical and mechanical changes and confirm the current design meets the requirements of EN 60079-0: 2012+A11:2013 and EN 60079-7:2015+A1:2018 including the revision of the marking in accordance with these standards. The equipment is now marked: Ex ec IIC T4 Gc (-20°C ≤ Ta ≤ +60°C) Test Report No. GB/BAS/ExTR18.0075/00. Project File No. 17/0737
For drawings applicable to each issue, see original of that issue.		



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