

# IECEx Certificate of Conformity

	IEC Certification S	ELECTROTECHNICAL COMMISSION System for Explosive Atmospheres ils of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEX BAS 17.0091X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2017-08-03		
Applicant:	Pepperl + Fuchs GmbH Lilienthalstrasse 200 68307 Mannheim Germany		
Equipment:	Z-Series Shunt Zener Diode Saf	ety Barriers	
Optional accessory	:		
Type of Protection:	Increased safety 'ec'		
Marking:	Ex ec IIC T4 Gc -20°C ≤ Ta ≤ +60°C		
Approved for issue Certification Body:	on behalf of the IECEx	R. S. Sinclair	
Position:		Technical Manager	
Signature: (for printed version)			
Date:			
2. This certificate i	and schedule may only be reproduced s not transferable and remains the pro authenticity of this certificate may be	d in full. operty of the issuing body. verified by visiting www.iecex.com or use of this QR Co	ode.
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Date of issue:	2017-08-03	Issue No: 0		
Manufacturer:	Pepperl + Fuchs GmbH Lilienthalstrasse 200 68307 Mannheim Germany			
Additional manufacturing locations:	<b>PT. Pepperl + Fuchs</b> Bintan SD 56, 57 Lobam, Bintan Industrial Estate IND-Pulau Bintan Riau <b>Indonesia</b>	Pepperl + Fuchs Asia Pte. Ltd. 18 Ayer Rajah Crescent Singapore 139942 Singapore		
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended				
<b>STANDARDS</b> : The equipment and a to comply with the foll		schedule of this certificate and the identified documents, was found		
IEC 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General req	uirements		
IEC 60079-7:2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment	protection by increased safety "e"		
		nce with safety and performance requirements uded in the Standards listed above.		
<b>TEST &amp; ASSESSME</b> A sample(s) of the eq	NT REPORTS: uipment listed has successfully met the exami	nation and test requirements as recorded in:		
Test Report:				
GB/BAS/ExTR17.023	7/00			
Quality Assessment F	Report:			
DE/PTB/QAR06.0008/08				



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### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Z Series Shunt Zener Diode Safety Barriers are designed to restrict the transfer of energy, from unspecified safe area equipment to intrinsically safe circuits, through the limitation of voltage and current. The range consists of single, double, triple and quadruple channel barriers covering polarised – positive and negative, non-polarised, non-polarised-star connected barriers and diode return barriers.

The barriers consist of electronic components on a single printed circuit board encapsulated within a moulded plastic enclosure which incorporates two or four terminals with separate earth terminal at both the hazardous and non-hazardous area ends and an integral spring mounted foot, designed for a DIN rail.

The barriers are asymmetrical and have light blue hazardous area terminals.

See annex for series range and electrical parameters.

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Z Series barrier must be installed in a suitably certified enclosure such that it is afforded a degree of protection of at least IP54 in accordance with IEC 60529 and IEC 60079-7 and is in an area of not more than pollution degree 2, as defined in IEC 60664-1.

Annex:

IECEx BAS 17.0091X Annex.pdf



ANNEX to IECEx BAS 17.0091X

Issue No. 0

Date: 2017/08/03

### Input / Output Parameters

### Supply circuit:

Terminals 5, 6, 7, 8

Barrier	Input (V)
Z705	4.8
Z710	8.9
Z710.CL	8.9
Z713	14.6
Z715	13.6
Z715.CL	13.6
Z715.1k	13.6
Z722	20.1
Z722.CL	20.1
Z728	28
Z728.CL	28
Z728.H	28
Z728.H-RSC	28
Z731	28
Z755	4.8
Z757	8.9
Z763	11
Z764	11
Z765	13.6
Z772	20.1
Z778	28
Z779	28
Z779.H	28
Z786	28
Z787	28
Z787.H	28
Z787.H-RSC	28
Z788	28
Z788.H	28
Z788.R	28
Z788.R.H	28
Z789	28
Z796	25.1
Z796.L	25.1

Barrier	Input (V)
Z805	4.7
	8.9
Z810 Z810.CL	8.9
Z813	14.6
Z815	13.6
Z815.CL	13.6
Z815.1k	13.6
Z822	20.1
Z822.CL	20.1
Z828	28
Z828.CL	28
Z828.H	28
Z855	4.7
Z857	8.9
Z864	11
Z865	13.6
Z872	20.1
Z878	28
Z879	28
Z886	28
Z887	28
Z888	28
Z888.H	28
Z888.R	28
Z888.R.H	28
Z896	25.1
Z896.L	25.1

Barrier	Input (V)
Z905	4.7
Z910	9.3
Z915	14
Z915.1k	14
Z922	10.5
Z928	27.6
Z954	4.9
Z954-RSC	4.9
Z955	4.7
Z960	9.5
Z960-RSC	9.5
Z961	8.1
Z961.H	8.1
Z964	11.7
Z965	14.2
Z966	11.7
Z966.H	11.7
Z967	16.2
Z969	13.6
Z972	20.9
Z978	27.6

Barrier	Input (V)
Z040	5.6
Z041	8.2
Z042	5.6

Output circuit:

Terminals 1, 2, 3, 4

Rated input (see above) = output.

OR

Maximum values for the intrinsically safe circuits have to be taken from IECEx BAS 09.0142 (or BAS00ATEX7005)