

EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 16ATEX8917 Issue 0
- [4] Product: Repeater power supply and trip amplifier D1054S
Fieldbus Isolating Repeater D1061S
Strain Gauge Isolating Repeater D1063S
- [5] Manufacturer: G.M. International S.r.l
- [6] Address: Via G. Mamell, 53/55, I-20852 Villasanta (MB), Italy
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 to the Directive.
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013, EN 60079-11: 2012 and EN 50303: 2000
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

	I (M1)	[Ex ia Ma] I	-20°C ≤Ta≤+60°C
	II (1) G	[Ex ia Ga] IIC	-20°C ≤Ta≤+60°C
	II (1) D	[Ex ia Da] IIIC	-20°C ≤Ta≤+60°C

Date of issue: 2017-05-22

Asle Kaastad
For DNV GL Nemko Presafe AS

The Certificate has been digitally signed.
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This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 16ATEX8917

Issue 0

[15] Description of Product

The D1054S series DIN Rail isolator is an associated apparatus designed as single channel galvanic isolator to interface intrinsically safe apparatus field devices located in hazardous area with non-intrinsically safe measuring and process control equipment located in safe area.

The D1061S series DIN Rail isolator is an associated apparatus designed as galvanic isolators to transfer bidirectional serial communication from Hazardous area equipment and convert their signals to drive bidirectionally non-intrinsically safe digital communication systems located in safe area.

The D1063S series single DIN Rail strain gauge isolating repeater D1063S acts as a transparent galvanic isolated interface installed between a weighting indicator in safe area and load cell in hazardous area.

They are enclosed in a plastic enclosure suitable for installation on T35 DIN rails.

Type designation

D1054S series

D1061S series

D1063S series

Electrical Safety Parameters

D1054S

Input: Terminal 14-15-16 (Um) Input: Terminals 15-16			Output:		Output between +TX and +IN, Terminals 14 and 15		Output between +IN and -IN, Terminals 15 and 16	
Um:	250	V	Uo:		26,3	V	1,1	V
Ui:	30	V	Io:		91	mA	56	mA
Ii:	128	mA	Po:		597	mW	16	mW
Li:	0	mH	Lo:	I	70,0	mH	148	mH
				IIA	34,5	mH	90,7	mH
				IIB	17,2	mH	45,3	mH
				IIC	4,3	mH	11,3	mH
				IIIC	17,2	mH	45,3	mH
Ci:	1,05	nF	Co:	I	4,39	μF	1000	μF
				IIA	2,51	μF	1000	μF
				IIB	738	nF	1000	μF
				IIC	95	nF	100	μF
				IIIC	738	nF	1000μF	μF
			Lo/Ro	I	782,2	μH/Ω	30,55	mH/Ω
				IIA	476,8	μH/Ω	18,618	mH/Ω
				IIB	238,4	μH/Ω	9,309	mH/Ω
				IIC	59,6	μH/Ω	2,327	mH/Ω
				IIIC	238,4	μH/Ω	9,309	mH/Ω

D1061S

Input:		Output:			
Um:	250V	Uo:	3,7	V	
Ui:	30V DC	Io:	225	mA	
Ii:	282 mA	Po:	206	mW	
Li:	0	Lo:	I	11,75	mH
			IIA	5,6	mH
			IIB	2,8	mH
			IIC	0,7	mH
			IIIC	2,8	mH
Ci:	0	Co:	I	1000	μF
			IIA	1000	μF
			IIB	1000	μF
			IIC	100	μF
			IIIC	1000	μF
		L ₀ /R ₀ :	I	2274	μH/Ω
			IIA	1386	μH/Ω
			IIB	693	μH/Ω
			IIC	173	μH/Ω
			IIIC	693	μH/Ω

D1063S

Input: Terminal 1 to 8 (Um) Input: Terminal 13-14			Output:		Output terminal 9,10,11,12(includin g terminals 13 and 14)		Output terminals 13 and 14	
Um:	250	V	Uo:	17,3	V	17,3	V	
Ui:	30	V	Io:	199,6	mA	7	mA	
			Po:	860	mW	31	mW	
Li:	0	mH	Lo:	I	11,75	mH	3,93	H
				IIA	6,8	mH	2,4	H
				IIB	3,4	mH	1,2	H
				IIC	0,85	mH	0,3	H
				IIIC	3,4	mH	1,2	H
Ci:	2,1	nF	Co:	I	11,79	μF	11,8	μF
				IIA	8,5	μF	8,5	μF
				IIB	2,06	μF	2,06	μF
				IIC	351	nF	353	nF
				IIIC	2,06	μF	2,06	μF
			Lo/Ro:	I	543,25	μH/Ω	15,47	mH/Ω
				IIA	329,6	μH/Ω	8,22	mH/Ω
				IIB	164,8	μH/Ω	4,11	mH/Ω
				IIC	41,2	μH/Ω	1,02	mH/Ω
				IIIC	164,8	μH/Ω	4,11	mH/Ω

Degrees of protection (IP Code)

IP 20

Ambient temperature:

-20°C to +60°C

Routine tests

Routine tests for infallible mains transformer according to EN 60079-11:2012 table 10, Um=250V

[16] Report No.: D0002847/00

[17] Specific Conditions of Use

N / A

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] Drawings and documents

Number	Title	Rev.	Date
CRR022	Certification report D1054	3	2007-02-19
SCD059	Electric Schematic D1054	1	2004-05-18
PCF067	Printed circuit board D1054 mother board	1	2004-05-18
PCF068	Printed circuit board D1054 daughter board	1	2004-05-18
TRS004	Technical specification Transformer TFRT006	0	1999-09-08
TRS005	Technical specification Transformer TFRT007	1	2001-09-03
CRR023	Certification report D1061	2	2007-02-19
SCD055	Electric Schematic D1061	2	2004-05-31
PCF059	Printed circuit board D1061 mother board	2	2004-05-13
PCF060	D1061 RS-485/RS-422 Isolator DIN RAIL	3	2017-03-17
TRS019	Technical specification Transformer TFRT029	0	2004-05-04
CRR024	Certification report strain gauge bridge isolating repeater	4	2007-02-19
PCF065	D1063 Bridge interface repeater DIN rail	3	2012-02-03
PCF066	D1063 Bridge interface repeater DIN rail	3	2012-02-03
SCD058	D1063 Bridge interface repeater DIN rail	3	2012-02-03
TRS021	Technical specification transformer TRFT031	0	2004-07-28
CRR047	IECEX-ATEX Certification Document of Repeater Power Supply and trip Amplifiers D1054	1	2016-09-15

CRR048	IECEX-ATEX Certification Document of Fieldbus Isolating Repeater D1061	1	2016-09-15
CRR049	IECEX-ATEX Certification Document of Strain Gauge Bridge Isolating Repeater D1063	1	2016-09-15

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2017-05-22	D0002847/00

END OF CERTIFICATE