



Member of the FM Global Group

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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**Galvanic Isolator RB223-abc.**

AIS / I / 1 / ABCDEFG — 02 20 00 111; Entity;  
 I / 0 / [AEx ia] IIC, IIB, IIA — 02 20 00 111; Entity;  
 NI / I / 2 / ABCD / T4 Ta = 60°C — 02 20 00 111; NIFW  
 ANI / I,II,III / 2 / ABCDEFG / T4 Ta = 60°C — 02 20 00 111; NIFW

NonEx → Ex version Entity Parameters / Nonincendive Field Wiring Parameter:

Terminals	Group	$V_{oc}/U_o$ (V)	$I_{sc}/I_o$ (mA)	$P_o$ (mW)	$C_a/C_o$ ( $\eta$ F)	$L_a/L_o$ (mH)
7 and 8	A/B	28.2	94.5	666	81	2
7 and 8	C	28.2	94.5	666	641	5
7 and 8	D	28.2	94.5	666	2110	5
9 and 10	A/B	28.2	94.5	666	81	2
9 and 10	C	28.2	94.5	666	641	5
9 and 10	D	28.2	94.5	666	2110	5

Ex → NonEx version Entity Parameters / Nonincendive Field Wiring Parameter:

Terminals	$V_{max}/U_i$ (V)	$I_{max}/I_i$ (mA)	$P_i$ (mW)	$C_i$ ( $\mu$ F)	$L_i$ (mH)
7 and 8	30	100	750	0	0
9 and 10	30	100	750	0	0

- a = Approval: C.
- b = Channel: 1 or 2.
- c = Transmission direction: A or B.

*Specific Condition of use*

- 1) *The Galvanic Isolator RB223 shall be installed in a tool secured enclosure in compliance with the mounting, spacing and segregation requirements of the ultimate application.*

## Equipment Ratings:

Associated Apparatus with Intrinsically Safe connections to a Class I, II, & III, Division 1, Groups A, B, C, D, E, F, & G and connections to a Class I, Zone 0, Group IIC, IIB, IIA; hazardous (classified) locations. Also as Nonincendive for use in a Class I, Division 2, Groups A, B, C, & D with nonincendive field wiring connections to Class I, II, III, Division 2, Group A, B, C, D, F and G hazardous (classified) locations. The installation shall be in accordance with Control Drawings 02 20 00 111. The equipment has a Temperature Class T4, Ta = 60°C.

The apparatus shall be installed in a final enclosure in order to retain its safety approval.

## FM Approved for:

Endress+Hauser Wetzler GmbH + Co. KG  
Nesselwang, Germany

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	2010
Class 3611	2004
Class 3810	2005

Original Project ID: 3027906

Approval Granted: September 7, 2007

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3042808	October 4, 2011		

FM Approvals LLC



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J. E. Marquedant  
Group Manager, Electrical

4 October 2011

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Date