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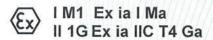
Translation

EC-Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres Directive 94/9/EC
- (3) No. of EC-Type Examination Certificate: BVS 11 ATEX E 177
- (4) Equipment: Circular connector series M23 RL45 Ex-i type 7R***087*0
- (5) Manufacturer: HUMMEL AG
- (6) Address: 79211 Denzlingen Germany
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the test and assessment report BVS PP 11.2277 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2009 General requirements EN 60079-11:2007 Intrinsic Safety 17 EN 50303:2000 Group I, Category M1

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.
 Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



DEKRA EXAM GmbH Bochum, dated 25.01.2012

Signed: Dr. Eickhoff	Signed: U. Hauke	
Certification body	Special services unit	

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- (13) Appendix to
- (14) EC-Type Examination Certificate BVS 11 ATEX E 177
- (15) 15.1 Subject and type

Circular connector series M23 RL45 Ex-i type 7R***087*0

- 1st and 2nd asterisk in the type designation: Mounting form
 - 10 = Cable connector
 - 45 = Panel connector, sold in variant, flange, real panel installation
 - 47 = Panel connector with cable relief, flange, real panel installation
 - 50 = Panel connector, central attachment, real panel installation
- 3rd asterisk in the type designation: Cable clamping
 - 4 = 4-7 mm cable diameter
 - 5 = 6-12 mm cable diameter
 - 6 = 11-17 mm cable diameter
- 4th asterisk in the type designation: Enclosure material and ambient temperature range 0 = Enclosure: Brass nickel plated, sealing element: NBR, -20 °C ≤ Ta ≤ +80 °C
 - 4 = Enclosure: Stainless steel AISI 316 L, sealing element: FKM (Viton), -20 °C ≤ Ta ≤ +105 °C

15.2 Description

The circular connector series M23 RJ45 Ex-i type 7R***087*0 is used for connecting RJ45-connections safely in hazardous areas and it consists of one plug in part, one socket part and customized freely RJ45-contacts. Respective electric cables are not part of the circular connector series.

The circular connector series can carry only one intrinsically safe circuit.

The circular connector series is a simple apparatus of group II and is used as an accessory in intrinsically safe systems of group I. It consists only of components which do not affect intrinsic safety

15.3 Parameters

Electrical parameters

Max. input voltage	///////\\Qi(//////	//DC/////30///
Max. input current	////////ii////ii//////////////////////	///////////////////////////////////////
Max. internal capacitance	///////Ci/////	//negligible//////
Max. internal inductance	////////Li///////	//negligible/////

Ambient temperature range

Type 7R***08700	-20 °C ≤ Ta ≤ +80 °C
Type 7R***08740	-20 °C ≤ Ta ≤ +105° C

(16) Test and assessment report

BVS PP 11.2277 EG as of 25.01.2012

(17) Special conditions for safe use

None

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We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH 44809 Bochum, 25.01.2012 BVS-Ste/Her A 20110726

Certification body

Special services unit