

(1) EC-TYPE-EXAMINATION CERTIFICATE

- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**
- (3) EC-Type-Examination Certificate Number



TÜV 12 ATEX 7190 X

- (4) Equipment: Increased Safety Terminal Box EJ5C-54* and EJ5C-52*
- (5) Manufacturer: IDEC CORPORATION
- (6) Address: 1-7-31 Nishimiyahara, Yodogawa-ku, Osaka 532-8550 Japan

- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Notified Body for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex190.00/12

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2009

EN 60079-7: 2007

EN 60079-31: 2009

- (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 schedule to this certificate.
- (11) This EC-Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G

Ex e IIC T6 Gb



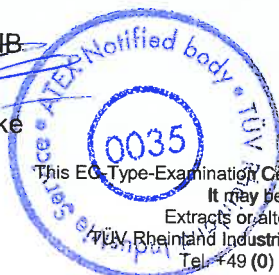
II 2 D

Ex tb IIIC T 80 °C Db

IP 65

TÜV Rheinland ExNB

Dipl.-Ing. Heinz Farke



Cologne, 28th November 2012

(Translation)

This EC-Type-Examination Certificate without signature and stamp shall not be valid. It may be circulated only without alteration.

Extracts or alterations are subject to approval by the:

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114



(13) Annex

(14) **EC - Type Examination Certificate**
TÜV 12 ATEX 7190 X

(15) Description of equipment:

15.1 Equipment and type:

Increased Safety Terminal Box Types: EJ5C-54* and EJ5C-52*

15.2 Description:

The Increased Safety Terminal Box can be manufactured in two types.
The Type EJ5C- 54 can be equipped with up to 60 certified terminals in each row (in total up to 120 terminals in the whole enclosure) for wires of 1.25 mm² to 2.5 mm².
The Type EJ5C- 52 can be equipped with up to 60 certified terminals for wires of 1.25 mm² to 2.5 mm².
Further technical data can be seen and taken from the tables below.

15.3 Technical Data

Standard Operating Conditions	Ambient operating temperature range: -20°C to +50 °C (no freezing),
	Operating humidity: 45 to 85 % RH (no condensation),
	Sea level : 2000 m maximum
Degree of protection	IP65
Conventional Free Air Thermal Current (I _{th})	9 A
Applicable wire	Stranded wire: 1.25 mm ² to 2.5 mm ² , or solid wire: Ø1.2 mm to 1.6 mm (AWG 16 to 14)
Electrical data	750 V depending on the certified type of terminal block, 9.0 A Stranded wire up to 2.5 mm ² , Solid wire: up to Ø1.6 mm (AWG 14) Protective-conductor cross-section up to 4 mm ²

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Terminal box no.		Number of terminals			
		30	60	90	120
EJ5C-52*	ALLOWABLE OPERATING CURRENT [REFERENCE(*)]	8,8 A	6,2 A	-----	-----
	Maximum dissipated power	50 W	50 W	-----	-----
EJ5C-54*	ALLOWABLE OPERATING CURRENT [REFERENCE(*)]	9 A	7 A	5,5 A	4 A
	Maximum dissipated power	60 W	70 W	70 W	50 W

Terminal box no.		Number of terminals			
		28	48	76	120
EJ5C-52*	ALLOWABLE OPERATING CURRENT [REFERENCE(*)]	9 A	7 A	-----	-----
	Maximum dissipated power	50 W	50 W	-----	-----

Terminal box no.		Number of terminals			
		30	60	76	120
EJ5C-54*	ALLOWABLE OPERATING CURRENT [REFERENCE(*)]	9 A	7 A	6 A	4 A
	Maximum dissipated power	60 W	70 W	70 W	50 W

(16) Test Report No. 557/Ex 190.00/12

(17) Special Conditions for safe use

The manufacturer has to make sure that the purchased components and equipment that has been previously ATEX certified are always representing state of the art. Therefore the manufacturers of these parts have to provide the EC Declaration of Conformity that relates to the current editions of the applied standards, which are listed in the Official Journal of the European Community.

Only the ATEX-certified components and equipment, which is listed in the internal ExTR shall be used in combination with the equipment.

Thermal considerations have to be done for each condition of use. The information given in the instruction manual shall be used as reference.

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(18) Basic Safety and Health Requirements

Fulfilled.

TÜV Rheinland ExNB

Cologne, 28th November 2012


Dipl.-Ing. Heinz Farke



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