

Translation

(1) **EU-Type Examination Certificate**

**TÜV NORD**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 16 ATEX 186482 X **issue:** 00

(4) for the product: Relay Coupler Device type IMX12-CD01-2R-2U-0/L/\*\*

(5) of the manufacturer: Hans Turck GmbH & Co. KG

(6) Address: Witzlebenstraße 7  
45472 Mülheim an der Ruhr  
Germany

Order number: 8000463624

Date of issue: 2016-09-29

- (7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

- (8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 the confidential ATEX Assessment Report No. 16 203 186482.

- (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

EN 60079-7:2015

EN 60079-15:2010

except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for 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 equipment. These are not covered by this certificate.

- (12) The marking of the product shall include the following:



II (1) G [Ex ia Ga] IIC, II (1) D [Ex ia Da] IIIC

II 3 (1) G Ex ec [ia Ga] IIC T4 Gc, II 3 G (1) D Ex ec [ia IIIC Da] IIC T4 Gc

II 3 G Ex ec nC IIC T4 Gc

See also schedule

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

Meyer

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

This certificate may only be reproduced without any change, schedule included.  
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

## (13) SCHEDULE

(14) EU-Type Examination Certificate No. TÜV 16 ATEX 186482 X issue 00

(15) Description of product

The Relay Coupler Device type IMX12-CD01-2R-2U-0/L/\*\* is used for switching of intrinsically safe output signal circuits on the field side by relay-contacts as well as for the safe galvanic separation between the intrinsically safe output circuits and the non intrinsically safe input circuits.

In case of installation in zone 2, also non intrinsically safe signal circuits may be connected to the relay output signal circuits. The simultaneous connection of intrinsically safe and non intrinsically safe circuits is not allowed.

The permissible ambient temperature range is -25°C ... 70°C.

Additional permissible alternative marking:

II (1) G [Ex ia] IIC

II (1) D [Ex ia] IIIC

II 3 (1) G Ex ec [ia] IIC T4

II 3 G (1) D Ex ec [ia IIIC] IIC T4

II 3 G Ex ec nCc IIC T4

### Electrical Data

Input circuits .....	U = 0 ... 30 V d. c., ca. 0.3 W per channel
(Input 1: X14-contacts 9, 10;	U <sub>m</sub> = 253 V a. c. / d. c.
Input 2: X13-contacts 11, 12;	
Input 3: X12-contacts 13, 14)	

### **Intrinsically safe output circuits:**

Output circuits .....	in type of protection
(Output 1:	Intrinsic Safety Ex ia IIC resp. Ex ia IIIC
X23-contact 6	Only for connection to intrinsically safe circuits;
X24-contacts 7, 8)	sum of max. values:
Output 2:	U <sub>i</sub> = 60 V
X22-contacts 3, 4	I <sub>i</sub> = 2 A
X23-contact 5)	The effective internal capacitances and inductances are
Output 3:	negligibly small.
X21-contacts 1, 2	
X23-contact 5)	

For safety reasons, the output circuits are interconnected.

The rules for interconnection of intrinsically safe circuits have to be observed.

**Schedule to EU-Type Examination Certificate No. TÜV 16 ATEX 186482 X issue 00**

**Non intrinsically safe output circuits (zone 2):**

Output circuits .....	U = 250 V a. c., I = 2 A, S = 500 VA, AC15
(Output 1:	U = 230 V d. c., I = 0.18 A, resistive load resp.
X23-contacts 6	U = 30 V d. c., I = 2 A, resistive load
X24-contacts 7, 8	P = 60 W
Output 2:	
X22-contacts 3, 4	
X23-contact 5	
Output 3:	
X21-contacts 1, 2	
X23-contact 5)	

The intrinsically safe circuits are safely galvanically separated from the non intrinsically safe circuits up to the peak value of the voltage of 375 V.

(16) Drawings and documents are listed in the ATEX Assessment Report No. 16 203 186482

(17) Specific Conditions for Use (only for zone 2 applications)

1. According to EN/IEC 60079-7, section 4.10.1, the following is valid for this apparatus:

The apparatus has to be mounted in a housing tested according to IEC 60079-0, that meets the requirements of degree of protection IP54.

The apparatus may be installed in an area of not more than pollution degree 2.

2. The connecting and disconnecting of energized non intrinsically safe circuits is only permitted, if no explosion hazardous atmosphere is available.

(18) Essential Health and Safety Requirements

no additional ones

- End of Certificate -