

# CERTIFICATE

## (1) EC-Type Examination

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 01ATEX1058** Issue Number: **3**

(4) Equipment: **Bus Terminator Module Type FBCon bus and Bus Distribution Module Type FBCon...**

(5) Manufacturer: **Weidmüller Interface GmbH & Co.**

(6) Address: **Killingbergstraße 16, 32758 Detmold, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC 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 confidential test report number 2007712.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 : 2012**

**EN 60079-11 : 2012**

(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, examination and tests of the specified equipment according to the 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:



**II 2 G Ex ia IIC T6 Gb**  
**II 2 D Ex ia IIIC T85°C Db**

This certificate is issued on 17 December 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

  
R. Schuller

Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 01ATEX1058**


Issue No. 3

(15) **Description**

Bus Terminator Module, Type FBCon is a FISCO Terminator, for use in an intrinsically safe FISCO fieldbus system.

Bus Distribution Module Type FBCon... is a terminal box. It has got no electrical components and serves only for interconnection of signals. The signals can be connected to earth by a wire bridge.

Ambient temperature range -40 °C to +80 °C.

| Type                                  | Marking   |  |
|---------------------------------------|---|--|
| Bus Terminator Module Type FBCon bus  |  | II 2 G Ex ia IIC T6 Gb and<br>II 2 D Ex ia IIIC T85°C Db |
| Bus Distribution Module Type FBCon... |   | II 2 G Ex ia IIC T6 Gb                                   |

**Electrical data**

Bus Terminator Module, Type FBCon bus (integral cable):

in type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe fieldbus system (e.g. in accordance with the FISCO-model), with following maximum values:

$U_i = 17,5 \text{ V}$ ;  $I_i = 380 \text{ mA}$ ;  $P_i = 5,32 \text{ W}$ ; capacitance  $C \leq 2,2 \text{ }\mu\text{F}$ ; resistor  $R_v \geq 90 \text{ }\Omega$ ; effective internal inductance  $L_i < 10 \text{ }\mu\text{H}$  (data according to the FISCO-model).

The intrinsically safe circuit is isolated from the metallic enclosure to a test voltage of at least 500 Vac, in accordance with clause 6.3.13 of EN 60079-11.

Bus Distribution Module Type FBCon... (all terminals):

in type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe fieldbus system, with following maximum values:

$U_i = 17,5 \text{ V}$ ;  $I_i = 380 \text{ mA}$ ;  $P_i = 5,32 \text{ W}$ ;  $C_i = 0 \text{ nF}$ ;  $L_i = 0 \text{ }\mu\text{H}$ .

Depending on the presence the wire bridge, the intrinsically safe circuit is either isolated from the metallic enclosure to a test voltage of at least 500 Vac, in accordance with clause 6.3.13 of EN 60079-11, or the intrinsically safe circuit is connected to earth.

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 2007712, issue 2.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 01ATEX1058**

Issue No. 3

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2007712, issue 2.