

CERTIFICATE

(1) EU-Type Examination

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

(3) EU-Type Examination Certificate Number: **DEKRA 20ATEX0077** Issue Number: **0**

(4) Product: **Bus Terminator Module Type FBCon Term D Ex ... and Bus Distribution Module Type FBCon PA CG ... Ex**

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

(6) Address: **Klingenbergstraße 26, 32758 Detmold, Germany**

(7) This product 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 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 confidential test report number 224713500 issue 0.

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

EN IEC 60079-0 : 2018

EN 60079-11 : 2012

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 of 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 product. These are not covered by this certificate.

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



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

Date of certification: 14 October 2020

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 20ATEX0077**


Issue No. 0

(15) **Description**

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

Bus Distribution Module Type "FBCon PA CG ... Ex" is a terminal box. It has got no electrical components and serves only for interconnection of intrinsically safe signals. The cable shield is connected to earth via a wire bridge. This connection can be disconnected by opening the wire bridge.

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

Type	Marking	
Bus Terminator Module Type "FBCon Term D Ex ..."		II 2 G Ex ia IIC T6 Gb and II 2 D Ex ia IIIC T85°C Db
Bus Distribution Module Type "FBCon PA CG ... Ex"		II 2 G Ex ia IIC T6 Gb

Electrical data

Bus Terminator Module, Type "FBCon Term D Ex ..." (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 PA CG ... Ex" (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 of the wire bridge, the cable shield 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 cable shield is connected to earth.

The intrinsically safe circuit is isolated from the metallic enclosure to a test voltage of at least 500 Vac in any case.

Installation instructions

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

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 20ATEX0077**

Issue No. **0**

(16) **Report Number**

No. 224713500, issue 0.

(17) **Specific conditions of use**

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 224713500, issue 0.

(20) **Certificate history**

Issue 0 - 224713500 Initial certificate