

[1] **EC-TYPE EXAMINATION CERTIFICATE**
according to Directive 94/9/EC, Annex III
(Translation)



[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU08ATEX1126 X**

[4] Equipment: Digital field display AX15-PA440

[5] Manufacturer: BD SENSORS GmbH

[6] Address: BD-Sensors-Str. 1
95199 Thierstein
GERMANY

[7] This equipment mentioned under [4] and any acceptable variation thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23th March 1994, certifies that the under [4] mentioned equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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 IB-08-3-282 of 29th September 2008.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2006 and EN 60079-11:2007.

[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 under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned in [4] shall include the following:

II 2G Ex ia IIB T4

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Authorised for certifications
Explosion protection

By order

(Dr. Lösch)



- Seal-
(ID no. 0637)

Freiberg, 30th September 2008

Certificates without signature and seal are not valid.
Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Schedule

[13] **Schedule**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU08ATEX1126 X**

[15] **Description of equipment**

The Digital field display AX15 serves in intrinsic safeally electrical plants for indication of a 4...20 mA two-wire sensor signal, and produces up to 2 PNP-Open collector switching outputs for a limiting value control. The power supply and evaluation of the switching exits are carried out by associated apparatus certified separately.

Ambient temperature range from -20 °C to +70 °C

Supply and signal electric circuit in type of protection Intrinsic Satety EEx ia IIC

Supply (VS+ and VS-, SP1 and SP2)	U_i, U_o	28 V DC
	I_i, I_o	93 mA
	P_i	660 mW

effective inner capacity	C_i	negligible
effective inner inductivity	L_i	negligible

[16] **Test report**

The test results are recorded in the test report IB-08-3-282. The test documents are part of the test report and listed there.

Summary of the Test Result:

The Digital field display AX15 fulfills the requirements of type of protection Intrinsic safety ,ia' on an electrical component of Equipment Group II Category 2G, Explosion Group IIB and Temperature Class T4.

[17] **Special conditions**

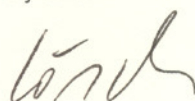
- No energy may be supplied from the outside into the active switching exits.
- The safety and assembly notes contained in the operating instructions and the ambient temperature range $-20\text{ °C} \leq T_a \leq +70\text{ °C}$ have to be observed.

[18] **Essential Health and Safety Requirements**

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 30th September 2008



(Dr. Lösch)

- [1] **1st Addition to**
EC-TYPE EXAMINATION CERTIFICATE IBExU08ATEX1126 X
according to Directive 94/9/EC, Annex III
- Translation -



- [2] Equipment: **Digital field display**
Type AX15-PA440
- [3] Manufacturer: **BD SENSORS GmbH**
- [4] Address: **BD-Sensors-Str. 1**
95199 Thierstein
GERMANY

[5] **Addition / Alteration**

The additions / alterations of the equipment mentioned in [2] compared with the equipment already certified concern in detail:

- Changes at the layout and inserting a current compensated inductor
- The display also meets the requirements of the current standards.

All other parameters remain unchanged.

[6] **Test Report**


The proof of the explosion protection of the equipment mentioned in [2] is documented in the Test Report IB-12-3-268 of 13 March 2013. The test documents are part of the Test Report.

[7] **Test result**

IBExU certifies that the equipment mentioned in [2] fulfils the Essential Health and Safety Requirements fixed in Annex II of the Directive 94/9/EC by compliance with EN 60079-0:2009 and EN 60079-11:2012.

The equipment stated under [2] fulfils the requirements of type of protection intrinsic safety 'ia' on an electrical component of Equipment Group II, Category 2G, Explosion Group IIB and Temperature Class T4.

The marking of the equipment stated under [2] must include the following:

 **II 2G Ex ia IIB T4 Gb**

This addition is only valid in combination with the EC-Type Examination Certificate IBExU08ATEX1126 X of 30 September 2008.

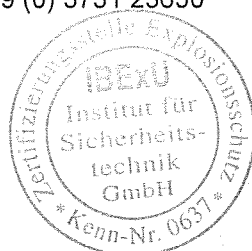
The safety instructions are unchanged and have to be taken into account furthermore.

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Authorized for certifications
- Explosion protection -

By order

(Dr. Wagner)



- Seal -
(Identification No. 0637)

Freiberg, 13 March 2013

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