



OBAC



Institute for Research and Certification Ltd.

44-122 Gliwice, ul. Jasna 31

(1) **EC-TYPE-EXAMINATION CERTIFICATE** (Translation)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 94/9/EC.
(Decree of Minister of Economy of Jul. 28, 2003, Official Journal No.143, Pos. 1393).

(3) EC – Type – Examination Certificate No.: **OBAC 05 ATEX 008**

(4) Equipment or protective system: **Straight through distribution box, type 07-5105-..../....**

(5) Manufacturer: **BARTEC GmbH**

(6) Address: **D-97980 Bad Mergentheim Max-Eyth-Str. 16**

(7) This equipment or protective system and any of its approved version is specified in this certificate and in documents listed below.

(8) The “OBAC” Institute for Research and Certification Ltd, Notified Body No. 1461 according to Article 9 of the European Council Directive 94/9/EC of March 23, 1994, certifies that this equipment or protective system has been found to comply with the essential health and safety requirements relating to the design and construction of the equipment and protective system intended for use in potentially explosive atmospheres, stated in Annex II to the Directive. The examination results are included in the confidential report No. OBAC/008/MK/05

(9) Compliance with the Safety Requirements has been assured by conformity with:
PN-EN 50014:2002(U), PN-EN 50019:2002(U), PN-EN 50020:2000, PN-EN-50281-1:2002

(10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to special conditions for safe use specified in the Schedule to his certificate.

(11) This EC type examination certificate is valid exclusively for the design and structure of the specified equipment or protective system, in compliance with the directive 94/9/WE. With reference to the producer and the supplier further requirements of this directive may apply. They are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 **I M1 EE x ia I**



**Vice President of Board
of the “OBAC” Institute
for Research and Certification Ltd.**

Piotr Tarnawski M.Com.

Gliwice, 10th January 2005



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(13)

SCHEDULE

(14)

**to the EC-Type-Examination Certificate
No. OBAC 05 ATEX 008**

(15) Description of Ex equipment or protective system:

Straight through distribution box, type 07-5105-..../...., consists of a reinforced casing „e” made of black polyester reinforced with glass fibre, type 07-5185-..../.....In the casing there are built-in certified connection terminals and cable and conduit inlets or bushing insulators for introducing cables or conduits

Rated data:

- Nominal voltage *	250V AC , DC
- Maximum current of one line	20 A
- Maximum section of the conduit	up to 10 mm ²
- Ambient temperature	from -55 C to +55 C
- Level of protection	IP 65

* depending on the connection terminals applied

The temperature parameters quoted refer to the maximum values, the actual values are quoted by the producer depending on the subassemblies applied.

Appendixes:

Technical documentation description to the type certificate dated 21.5.2001

Operation manual

EG- Baumusterpruefbescheinigung PTB 01ATEX 1104

Pruefbericht PTB Ex 01-11186

EG- Baumusterpruefbescheinigung IBExU 00ATEX 1081

EG- Baumusterpruefbescheinigung IBExU 01ATEX 1042U

Drawing No. 01-5103-6501 4 page dated 16.8.2001

Drawing No. 01-5103-6502 1 page dated 16.8.2001

List of materials 01-5103-6501 St. dated 16.8.2001

(16) Reports:

OBAC/008/RE/05

Straight through distribution boxes, type 07-5105-..../...., fulfil the requirements for the explosion-proof equipment and can be used as an appliance of the group I, category M1.

(17) Special conditions for safe use:

If there are more than one intrinsically safe circuits, the principles of leading and connecting various intrinsically safe circuits must be taken into account.

(18) The compliance with Safety Requirements has been assured by compliance with standards shown in p.9 of this certificate.



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of the "OBAC" Institute
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Piotr Tarnawski M.Com.



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Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-122 Gliwice, ul. Jasna 31

(1) **SCHEDULE No. 1**
to
EC-Type Examination Certificate No. OBAC 05 ATEX 008
(Translation)

(2) Equipment or protective system: **Straight through distribution box, type 07-5105-..../....**

(3) Manufacturer: **BARTEC GmbH**

(4) Address: **D-97980 Bad Mergentheim Max Eyth Strasse 16**

(5) Meeting basic safety requirements has been secured through compliance with:

PN-EN 60079-0:2006

PN-EN 60079-7:2004

PN-EN 60079-11:2007

PN-EN 50303:2004

(6) Description of modifications:

A possibility of an optional application of casings made of stainless steel, type 07-56**-***** and an alternative application of the following equipment has been introduced:

Name	Property	Certificate	Manufacturer
Stainless steel casing	Ex e I	OBAC07ATEX 210U	BARTEC POLSKA
Two-part multi-pinned push-in fitting, type EX STS	I M2 Ex ia I	BVS 03 ATEX E184X	WIELAND
Cable inlet, type HSK-M-Ex-d	II 2GD Ex d IIC	KEMA 99 ATEX 6968 X	HUMMEL
Cable inlet, type HSK-M-PVDF-Ex-d	II 2GD Ex d IIC	KEMA 99 ATEX 6968 X	HUMMEL
Cable inlet, type HSK-MZ-Ex-d	II 2GD Ex d IIC	KEMA 99 ATEX 6968 X	HUMMEL
Plug, type V-Ms-Ex-d	II 2GD Ex d IIC	KEMA 06 ATEX 0024	HUMMEL
Plug, type V-Ms-FPM-Ex-d	II 2GD Ex d IIC	KEMA 06 ATEX 0024	HUMMEL
Plug, type V-Ms-VMQ-Ex-d	II 2GD Ex d IIC	KEMA 06 ATEX 0024	HUMMEL
Reducer, type RSD-Ms-Ex-d	II 2GD Ex d IIC	KEMA 06 ATEX 0024	HUMMEL
Cable inlet, type HSK-K-Ex	II 2GD Ex e II	DMT 02 ATEX E 047 X	HUMMEL
Cable inlet, type HSK-K-MZ-Ex	II 2GD Ex e II	KEMA 99 ATEX 6971 X	HUMMEL
Cable inlet, type HSK-M-Ex	II 2GD Ex e II	DMT 03 ATEX E 051 X	HUMMEL
Cable inlet, type HSK-M-PVDF-Ex	II 2GD Ex e II	KEMA 99 ATEX 6971 X	HUMMEL
Cable inlet, type HSK-MZ-Ex	II 2GD Ex e II	KEMA 99 ATEX 6971 X	HUMMEL
Cable inlet, type HSK-MZ-PVDF-Ex	II 2GD Ex e II	KEMA 99 ATEX 6971 X	HUMMEL
Plug, type V-Ms-Ex-d	II 2GD Ex d II	DMT 03 ATEX E 049	HUMMEL
Plug, type V-Ms-FPM-Ex-d	II 2GD Ex d II	DMT 03 ATEX E 049	HUMMEL
Plug, type V-Ms-VMQ-Ex-d	II 2GD Ex d II	DMT 03 ATEX E 049	HUMMEL
Plug, type V-Ex	II 2GD Ex e II	DMT 03 ATEX E 049	HUMMEL
Plug, type V-Ms-Ex	II 2GD Ex e II	DMT 03 ATEX E 049	HUMMEL
Plug, type V-Ms-FPM-Ex	II 2GD Ex e II	DMT 03 ATEX E 049	HUMMEL
Plug, type V-Ms-VMQ-Ex	II 2GD Ex e II	DMT 03 ATEX E 049	HUMMEL
Plug, type HSK-V-Ex	II 2GD Ex e II	BVS 03 ATEX E 298	HUMMEL
Reducer, type RSD-Ms-Ex	II 2GD Ex e II	DMT 03 ATEX E 049	HUMMEL



**Vice President of Board
of the "OBAC" Institute
for Research and Certification Ltd.**

[Signature]

Piotr Tarnawski M.Com.

Gliwice, 4 August 2008



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(1)

SCHEDULE No. 1


to

EC-Type Examination Certificate No. OBAC 05 ATEX 008

(7) Results of the tests conducted:

The explosion-proof execution of the introduced changes has been confirmed in a confidential report on the product evaluation: OBAC/08/ATEX/262.

The introduced changes fulfil the requirements for appliances of the group I category M1.

The marking of the explosion-proof execution acquires the following form:  **I M1 Ex ia I**

(8) Special conditions for safe use

- In the event of encasing the straight through distribution box, type 07-5105-****/****, or 07-5105-****/****S – for encasings made of stainless steel, the certified appliances specified in the table, it is necessary to take into account the conditions and indications pertaining to encasing these appliances.
- In the event of introducing various intrinsically safe circuits to the box, maintain insulation spaces on the surface of materials and in the air in compliance with the requirements of the standard PN-EN 60079-11.
- The producer shall specify on the rating or data plate admissible maximum voltage and current parameters for external intrinsically safe circuits introduced to the box.

(9) Technical documentation:

- Technical documentation: „Straight through distribution box, type 07-5105-****/****” No. BP/DT/012/08. Appendix No. 1 to the technical description dated 21 May 2001
- Drawings
 - Casing type 07-56**_**** Drawing No. BP/DT/09/07-M00



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