

(1) EC-TYPE EXAMINATION CERTIFICATE

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

(3) EC-Type Examination Certificate Number: **KEMA 05ATEX2180 X**

(4) Equipment or protective system: **CON-TRACE Expeditor type CT-B-M20, CT-P-M16, CT-P-M20**

(5) Manufacturer: **BARTEC NEDERLAND b.v.**

(6) Address: **Keurmeesterstraat 17b, 2984 BA Ridderkerk, The Netherlands**

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

(8) KEMA Quality 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 or protective system 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 report no. 2083655.

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

EN 50014 : 1997 + A1 + A2
EN 60079-0 : 2004
EN 50281-1-1 : 1998 + A1

EN 50019 : 2000
EN 60079-7 : 2003

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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



**II 2 GD Ex e II T6 T80°C IP68 or Ex e II T3 T120°C IP 68 or
EEx e II T6 T80°C IP68 or EEx e II T3 T120°C IP 68**

Arnhem, 21 September 2005
KEMA Quality B.V.


T. Pijpker
Certification Manager

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(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 05ATEX2180X

(15) **Description**

The CON-TRACE Expeditor type CT-B-M20, CT-P-M16, CT-P-M20 is a mounting accessory intended for use only with BARTEC heat tracing cable type PSB and HSB non-heating insulated power cable. It is used to support the terminal box near process piping and simultaneously provide a guarded entry of cable into the Ex junction box.

Ambient temperature range -55 °C ... +55 °C.

Technical data

Type CT-B-M20, (Bend)	Dimensions : Diameter 130 x 130 mm Bending radius : R45 Material : Stainless Steel SS316 Treading : M20 x 1.5 (2x)
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Type CT-B-M20, (Pipe)	Dimensions : Length 90 mm Material : Stainless Steel SS316 Treading : M20 x 1.5 (2x)
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Type CT-B-M16, (Pipe)	Dimensions : Length 90 mm Material : Stainless Steel SS316 Treading : M16 x 1.5 (2x)
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Installation instructions

To secure the junction box from free rotating with respect to the expeditor loctite glue is allowed additional to the use of locknuts.

Routine tests

None

(16) **Report**

KEMA No. 2083655.

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

In conjunction with HSB/PSB heating cable the appropriate temperature class of the expeditor remains that of the cable. For use with PSB type cable in potentially explosive atmospheres caused by the presence of flammable gases a T6 temperature class applies. For potentially explosive atmospheres caused by the presence of combustable dust, a maximum surface temperature of 80 °C applies. In case of use with HSB type cable these classes are T3, respective 120 °C.

In case of use with non-metallic junction boxes, earthing is required by means of an earthing lug clamped between two inner locknuts.

Cable entry into the expeditor opposite to the junction box shall be done by use of an EEx e certified cable gland, suitable for the conditions of use and correctly installed.

Application of the CON-TRACE expeditor raises the temperature in the junction box with 5 K for use with PSB type cable and 12 K for use with HSB cable. Selection of terminals regarding operating temperature range shall take this effect into account.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2083655.