

Physikalisch-Technische Bundesanstalt (PTB)
(Federal German Institute of Physical Sciences and Engineering)
Braunschweig and Berlin

(1) EC Design Test Certificate

(2) Machines and protection systems for proper use in explosion-hazard zones - Directive 94/9/EC

(3) EC Design Test Certificate Number:
PTB 97 ATEX 1065 X

(4) Machine: **Illumination Module, Type 07-3353-31.../...**

(5) Manufacturer: **BARTEC Componenten und Systeme GmbH**

(6) Address: **D-97980 Bad Mergentheim Germany**

(7) The design of this machine and the different permitted models are defined in the Annex to this Design Test Certificate.

(8) The Federal German Institute of Physical Sciences and Engineering has been appointed as agency no. 0102. In this capacity the Agency hereby certifies in accordance with Article 9 of the Directive of the Council of the European Community of March 23, 1994 (94/9/EC) that the machine fulfils the basic safety and health requirements for the design and construction of machines and protective systems for proper use in explosion-hazard zones, as specified in Annex II of the Directive.

The results of the test are specified in the Confidential Test Report No. Ex 97-17118.

Certification Agency for Explosion Protection P.P.

[signature]
Dr. Ing. U. Klausmeyer
Senior Executive Officer

Seal of the
Federal German
Institute of
Physical
Sciences and
Engineering – 24

Braunschweig,
November 12 1997

(13)

Annex

(14)

EC Design Test Certificate PTB 97 ATEX 1065 X

(15) Description of the Machine:

The Illumination Module Type 97-335-11.../... is designed for mechanically protected installation. It is available in a variety of signal colours.

The machine is connected via the cast connection cable (end of cable).

The signal lamp is attached through a front ring. Consecutive arrangement is permitted.

Technical Specifications

Rated voltage	up to	300 V
Rated operating voltage		AC/DC 12 ... 60 V
		AC 110 ... 250 V
Rated fixed operating voltage.....		1 V ... 250 V
with possible deviations of.....		± 10%
Rated frequency.....		either 50/60 Hz or DC
Rated cross section.....	max.	2 x 1.5 mm ²
Ambient temperature.....		-55°C to 60°C

The Illumination Module can be used in areas of temperature class T6. The pressure-proof housing of the module is designed for heat resistance up to 105°C.

(16) Test Report No. Ex 97-17118, consisting of a description (7 pages), a drawing (1 page), an itemised list (2 pages) and a table with columns (1 page).

(17) Special conditions

The Illumination Module must be installed in such a way that it is mechanically protected against impact energy, in compliance with EN 50 014, section 24.4.3.1.

Physikalisch-Technische Bundesanstalt (PTB)
(Federal German Institute of Physical Sciences and Engineering)
Braunschweig and Berlin

Annex to the EC Design Test Certificate PTB 97 ATEX 1065 X

The line quality must be selected in such a way that it meets the thermal and mechanical requirements in their area of operation.

Routine Check Test

No routine check test (stipulated in EN 50 018, section 16.1.1) needs to take place, as the volume of the Illumination Module is less than 10 cm³ and, according to section 16.2, housings are excepted if their content is small than or equals 10 cm³.

(18) Basic safety and health requirements

Not applicable

Certification Agency for Explosion Protection
p.p.

[signature]
Dr. Ing. U. Klausmeyer
Senior Executive Officer

Seal of the
Federal German
Institute of
Physical
Sciences and
Engineering – 24

Braunschweig,
November 12, 1997