



Translation

(1) **EC-Type Examination Certificate**

(2) **- Directive 94/9/EC -**

**Equipment and protective systems intended for use
in potentially explosive atmospheres**

(3) **BVS 06 ATEX E 069 X**

- (4) **Equipment:** The cable entries type Snapclic-DUO-MS-EX 156*,****,** with tube type Snapflex-Ex 1560*,****,** und clip type Snapclic-Ex 1730*,****,**
- (5) **Manufacturer:** HUMMEL Elektrotechnik GmbH
- (6) **Address:** 79183 Waldkirch, Germany
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of EXAM BBG Prüf- und Zertifizier GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment 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 the test and assessment report BVS PP 06.2123 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- | | |
|-----------------------|---------------------------|
| EN 60079-0:2004 | General requirements |
| EN 60079-7:2003 | Increased safety |
| EN 50281-1-1:1998 +A1 | Dust explosion protection |
- (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 in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



**II 2G Ex e II
II 1D IP 68**

EXAM BBG Prüf- und Zertifizier GmbH

Bochum, dated 30. October

Signed: Dr. Jockers

Certification body

Signed: Dr. Eickhoff

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 06 ATEX E 069 X

(15) 15.1 Subject and type

The cable entries type Snapclic-DUO-MS-EX 156*.*.*.* with tube type Snapflex-Ex 1560.*.*.* und clip type Snapclic-Ex 1730.*.*.*

The * will be replaced by digits to describe the thread dimension and the accompanying diameters of cable and tube.

15.2 Description

The cable entries are designed for the installation at electrical apparatus type of protection "increased safety" (Ex e II) and serve for the installation of fixed cables. The cable entries are also intended for the use in combustible dust atmospheres.

15.3 Parameters

Permitted temperature range of the cable entries -20 °C to +95 °C

The ambient temperature range of electrical apparatus is normally limited to $-20\text{ °C} \leq T_a \leq +40\text{ °C}$. The ambient temperature range can be exceeded for the use of these cable entries as long as the permitted temperature range of -20 °C to +95 °C of the cable entries is taken into account.

(16) Test and assessment report

BVS PP06.2123 EG as of 30.10.2006

(17) Special conditions for safe use

The cable entries shall only be used for fixed installations

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 30.10.2006
BVS-Ld/Kw A 20060332

EXAM BBG Prüf- und Zertifizier GmbH



Certification body



Special services unit



Translation

1st Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the EC-Type Examination Certificate BVS 06 ATEX E 069 X

Equipment: Hose connections
type Snapclic-DUO-MS-EX 156*.****.** with
hose type Snapflex-EX 1560.****.** and
clamp type Snapclic-EX 1730.****.**

Manufacturer: Hummel Elektrotechnik GmbH

Address: 79183 Waldkirch, Germany

Description

The hose connections (cable and conduit entries) are intended for being attached to apparatus that meets the requirements of the type of protection Increased Safety (Ex e II); they serve the purpose of leading in fixedly installed cables and conduits. The hose connections may also be installed in areas where combustible dust is present. The main reason for issuing this supplement is the fact that there have been adjustments of the following standards: EN 60079-0:2006 General Requirements; EN 60079-7:2003 Increased Safety 'e'; EN 61241-0:2006 General Requirements and EN 61241-1:2004 Protection by Enclosures. In future, the hose connections may be manufactured according to the documents listed in the test report if the marking is modified accordingly.

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-7:2003 Increased safety
EN 61241-0:2006 General requirements
EN 61241-1:2004 Protection by enclosures

The marking of the equipment shall include the following:



II 2G 1D Ex e II tD A20 IP68*

* IP68 Marking on packaging or accompanying operating manual

Special conditions for safe use

The screwed cable glands (cable and conduit entries) may only be used to lead in fixedly installed cables and conduits.

Test and assessment report
BVS PP 06.2123 EG as of 13.02.2008

DEKRA EXAM GmbH

Bochum, dated 13th February 2008

Signed: Dr. Jockers

Signed: Dr. Eickhoff

Certification body

Special services unit

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 16.06.2008
BVS-Ld/Ar E 0864/08

DEKRA EXAM GmbH



Certification body



Special services unit