

# (1) EC-TYPE EXAMINATION CERTIFICATE

## (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 07ATEX0046** Issue Number: 1

(4) Equipment: **Signal Light series AR-077/...**

(5) Manufacturer: **Artidor Explosion Safety B.V.**

(6) Address: **Mient 16 B, 2903 LC Capelle aan den IJssel, The Netherlands**

(7) This equipment 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 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 test report number 2030641.

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

**EN 60079-0 : 2006**  
**EN 61241-0 : 2006**

**EN 60079-1 : 2004**  
**EN 61241-1 : 2004**

**EN 60079-7 : 2003**

(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 according to the 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 2 G Ex d IIC T6**  
**II 2 G Ex de IIC T6**  
**II 2 D Ex tD A21 IP65 T 80 °C**

This certificate is issued on March 21, 2008 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

  
T. Pijker  
Certification Manager

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Experience you can trust.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 07ATEX0046**

Issue No. 1

(15) **Description**

The Signal Light AR-077/... series consists of a lamp unit mounted in a Stainless Steel or anodised Aluminium enclosure in type of protection Ex d. The light source can be a flashing Xenon light (XE) or LED status light. The lamp cover is a polycarbonate dome. The internally inserted lenses may be of any colour.

Ambient temperature range: -20 °C ... +40 °C

**Electrical data**

AR-077 / 2 / 1 / 1 / XE - 230V  
 I II III IV V VI

Designation	Explanation		Value	Explanation
I	Model type designation		AR-077	
II	Version		0	Type of protection: Ex d Connection: factory sealed cable
			2	Type of protection: Ex de Connection: - Ex e cable gland - 2 pole connection terminals or - 4 pole connection terminals for distribution, max. 16A transition current
III	Mounting bracket		0	Without mounting bracket
			1	With mounting bracket
IV	Material		1	Aluminium anodized
			3	Stainless steel
V	Light source		XE LED	Xenon LED's
VI	Rated voltage, rated current		XE	12V 11 ... 13 V ac/dc, 65 mA 24V 20 ... 27 V ac/dc, 130 mA 48V 44 ... 62 V ac/dc, 170 mA 60V 44 ... 62 V ac/dc, 170 mA 115V 95 ... 120 V ac/dc, 130 mA 230V 200 ... 245 V ac, 65 mA
			LED	24V 20 ... 27 V ac/dc, 30 mA

(13) **SCHEDULE**

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Issue No. 1

**Installation instructions**

In case power connection is realised with factory sealed cable, the cable shall be connected in a hazardous area approved junction box equipped with appropriate cable glands and terminals.

**Routine tests**

The Signal Light in Ex de type of protection, type AR-077/2..-12V through AR-077/2..-60V, shall be subjected to an electric strength test according to EN 60079-7, clause 7.2.

(16) **Test Report**

KEMA No. 2030641.

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2030641.