

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 23ATEX0068 X** Issue Number: **0**

(4) Product: **Signal light type AR-047/***_***

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

(6) Address: **Emopad 38, 5663 PB Geldrop, The Netherlands**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 NL/DEK/ExTR23.0046/00.

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

EN IEC 60079-0 : 2018

EN 60079-18 : 2015 + A1 : 2017

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 2 G Ex mb IIC T4 Gb
II 2 D Ex mb IIIC T135 °C Db

Date of certification: 2024-05-02

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 23ATEX0068 X**

Issue No. **0**

(15) **Description**

The Signal light type AR-047 is a single light source that can be operated continuously or intermittently.

The Signal light consists of:

- a bottom enclosure and top plate made of stainless steel or anodized aluminum,
- printed circuit board containing the leds and control electronics,
- polycarbonate lens,
- a certified cable gland and
- a permanently connected cable for the electrical connection.

The electronics and leds are encapsulated and designed in type of protection Ex m.

Ambient temperature range : -20 °C to +60 °C.

Ingress protection : IP65 in accordance with EN IEC 60079-0 and EN 60529.

Nomenclature, Signal light type AR-047/abc-d

Code	explanation	contents	meaning
a	Cable position	0	Radial (default)
		1	Axial (at request)
b	Lighting mode	3	Continuous or blinking, user selectable – 4-wire connection
c	Housing material	1	Anodized aluminum
		3	Stainless steel AISI 316
d	Light color	R	Red, 625 nm
		Y	Yellow / amber, 610 nm
		G	Green, 530 nm

Electrical data

24 - 48 V DC; 4 W.

Permitted supply short-circuit current: 50 A.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR23.0046/00.

(17) **Specific conditions of use**

1. Propagating brush discharges shall be avoided, refer to installation manual.
2. The cable shall be installed fixedly.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR23.0046/00.