

UNIT ASSESSMENT CERTIFICATE

Issued by a competent body in explosion safety

ARTIDOR 22ATEX9999

3. We, ARTIDOR Explosion Safety B.V., Emopad 38, 5663 PB Geldrop, The Netherlands, herewith declare that:

4. **Apparatus:** Explosion-safe LED signal light
Type: AR-047/xxx
Supply: 24 V DC
Power: 4 Watt
Quantity: 1 piece
Lot No.: AS229999

5. 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 directive 2014/34/EU.

6. Compliance with the Essential Health and Safety Requirements for group II, category 3GD equipment has been assured by compliance with the following harmonized standards:

- EN 60079-0:2018
- EN 60079-18:2015 / A1:2017

7. The design and the results of the examination and tests carried out are documented in confidential technical construction file No. AS229999, held at the offices of Artidor Explosion Safety B.V.

8. If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to the special conditions for safe use as described in this declaration.

9. The marking of the equipment includes the following:



II 3 G Ex mc IIC T4 Gc
II 3 D Ex mc IIIC T135°C Dc

10. This certificate only relates to the examination and tests according to directive 2014/34/EU and to the equipment of the above mentioned type, lot number and Ex code.

11. Production is controlled by the ARTIDOR Quality Assurance system in accordance with ISO 9001:2015 and annex VIII of directive 2014/34/EU.

12. This certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.

13. The ambient temperature allowed is -20 °C to +60 °C.

14. Description

The AR-047 omnidirectional LED signal light consists of a stainless steel or anodized aluminum housing and 20 mm thick impact resistant polycarbonate (PC) lens, covered by a stainless steel or aluminum top plate. The light is sealed by an O-ring and the printed circuit board containing the 15 leds and electronics are molded using a special polyurethane molding mass. The molding mass is kept within its operational temperature limits by a thermal fuse. Furthermore, the electronic circuits are protected against high currents by a non-resettable fuse. The housing is provided with an Ex e cable gland and a 5 meter long factory sealed cable.

The AR-047 can be delivered with red, yellow or green leds.

Geldrop, 1 December 2022

M. Moolenaar
Managing Director and EX Authorized Person

Example