

Explosion-safe LED Signal light AR-047

Suitable for Zone 1 / 21, with fixed cable



Features

- ATEX and IECEx certified
- Suitable for use in gas and dust environments, Zone 1, 2, 21 and 22
- Light color red, yellow / amber or green
- Continuous lighting or blinking, user selectable
- AISI 316 stainless steel or anodized aluminum housing
- Polycarbonate (PC) impact-resistant window
- Ingress protection level IP65
- 24 - 48 VDC, 4 Watt
- Fixed cable, 5 meters



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



Description

Artidor's omnidirectional explosion-safe AR-047 LED signal light is designed for use under the most demanding conditions. The robust stainless steel AISI 316 housing and top plate, the 20 mm thick impact-resistant window, the silicon seals and molded electronics ensure that the lamp is completely impervious to water and salt.

The latest generation LEDs ensure a clearly perceptible visual signal. Dependent on the user's selection, the light will burn continuously or it blinks at a frequency of 1 Hertz. The signal light can be ordered with a radial cable connection or (at request) with a bottom connection. This makes the lamp highly suitable for use as a warning light on control cabinets.

The connection cable has a standard length of 5 meters. For application under less demanding conditions there is also a version available with an anodized aluminum housing and top plate.

The Artidor AR-047 LED signal light is explosion-safe and certified in accordance with European Directive 2014/34/EU (ATEX 114) and is CE marked. The AR-047 signal light also meets the requirements of the IEC certification system for explosive atmospheres (IECEx).



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Technical data

Explosion safety:	II 2 G Ex mb IIC T4 Gb, II 2 D Ex mb IIIC T135°C Db
European directives:	2014/34/EU (ATEX 114), 2014/30/EU (EMC)
Applied standards:	EN IEC 60079-0:2018 and EN 60079-18:2015 / A1:2017
Certificates:	DEKRA 23ATEX0068X (ATEX) and IECEx DEK 23.0048X (IECEX)
Light color:	Red (625 nm), yellow / amber (610 nm) or green (530 nm)
Luminance:	Red: 4.250 Cd/m ² , yellow / amber: 6.350 Cd/m ² and green: 8.300 Cd/m ²
Material:	AISI 316 stainless steel or anodized aluminum housing, 20 mm impact-resistant polycarbonate window
Ingress protection level:	IP65 according to EN 60529
Supply voltage:	24 - 48 VDC ± 10%
Nominal current:	160 mA @ 24 VDC
Connection:	Fixed cable, 4 x 0,75 mm ² , length 5 m
Earth connection:	External, stainless steel, 4 mm ²
Ambient temperature:	-20 °C to +60 °C
Dimensions:	Ø 95 x 60 mm (excl. cable gland)
Mounting:	Stainless steel bracket
Weight:	1.750 gram (stainless steel) / 930 gram (aluminum)



Order code

AR-047 / 0 3 3 - R

Light color

R = Red, 625 nm
Y = Yellow / amber, 610 nm
G = Green, 530 nm

Housing material

1 = Anodized aluminum
3 = Stainless steel AISI 316

Lighting mode

3 = Continuous or blinking, user selectable – 4-wire connection

Cable position

0 = Radial (default, see picture)
1 = Axial