

Explosion-safe LED Traffic Light AR-049

Suitable for zone 1 / 21. With 1, 2 or 3 colors.



Characteristics

- ATEX certified
- Suitable for use in gas and dust environments, zones 1, 2, 21 and 22
- Light colors, various combinations possible of Red, Yellow (Amber) and Green
- Continuous lighting or blinking, user selectable
- AISI 316 stainless steel housing
- Traffic light with 1 lamp, supplied with 5m cable
Traffic lights with 2 and 3 lamps, supplied with an internal connection box made of GRP
- Lamps with a polycarbonate impact resistant lens
- Protection degree IP65
- 24 - 48 VDC, 4 Watt per light



II 2 G Ex 60079-46 IIC T4 Gb
II 2 D Ex 60079-46 IIIC T135°C Db



Description

Artidor's explosion-safe AR-049 LED traffic light is engineered for operation under the most demanding conditions. Its rugged 316 stainless steel housing, impact-resistant 4 mm thick window, O-ring seals and encapsulated electronics make the unit completely impervious to water and salt. High-efficiency, next-generation LEDs ensure a bright and highly visible signal at all times.

The AR-049 is available in single, double or triple configurations and in any combination of red, yellow (amber) or green. Depending on the user's selection, each signal can operate in continuous mode or blink at a frequency of 1 Hz. Horizontally mounted sun hoods are supplied as standard, and installation is simple with two mounting brackets that are included.

The single lamp version is delivered with a fixed 5 m cable, while the two lamp and three lamp versions are equipped with an internal junction box made of glass fiber reinforced plastic (GRP).

The Artidor AR-049 LED traffic light is explosion-safe and fully certified in accordance with European Directive 2014/34/EU (ATEX 114). It also carries CE marking for EMC compliance.



ZONE 1/21



Explosion-safe LED Traffic Light AR-049

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Technical data

Explosion safety:	II 2 G Ex 60079-46 IIC T4 Gb, II 2 D Ex 60079-46 IIIC T135°C Db
European directives:	2014/34/EU (ATEX 114), 2014/30/EU (EMC)
Applied standards:	EN IEC 60079-0:2018, IEC TS 60079-46:2017 (Ed. 1.0) and EN ISO 80079-36:2016
Certificates of individual LED:	DEKRA 24ATEX0038X (ATEX), IECEX DEK 24.0027X (IECEX)
Light colour:	Red (625 nm), yellow / amber (610 nm) or green (530 nm)
Light intensity:	195 lm per lamp
Material:	AISI 316 stainless steel, 4 mm impact-resistant polycarbonate window
Degree of protection:	IP65 according to EN 60529
Supply voltage:	24 - 48 VDC \pm 10%
Nominal current:	160 mA @ 24 VDC (1 lamp), 320 mA @ 24 VDC (2 lamps), 480 mA @ 24 VDC (3 lamps)
Connection:	1 lamp design, with fixed cable, 4 x 0,50 mm ² , length of 5 m; the 2 and 3 lamp versions with connection box
Earth connection:	External at the back side, stainless steel, M6
Ambient temperature:	-20 °C to +50 °C
Dimensions LxDxH:	1 lamp version: 158 x 278 x 257 mm – without brackets 2 lamp version: 158 x 278 x 410 mm – without brackets 3 lamp version: 158 x 278 x 525 mm – without brackets
Mounting:	2 stainless steel brackets
Weight:	1 lamp version: 4,4 kg 2 lamp version: 8,4 kg 3 lamp version: 11,4 kg



AR-049/R



AR-049/RG



AR-049/RYG

Order code

AR-049/R:	Traffic light with 1 lamp – RED – 5m cable for direct connection
AR-049/Y:	Traffic light with 1 lamp – YELLOW – 5m cable for direct connection
AR-049/G:	Traffic light with 1 lamp – GREEN – 5m cable for direct connection
AR-049/RG:	Traffic light with 2 lamps – RED-GREEN – to be connected via junction box
AR-049/RG:	Traffic light with 2 lamps – RED-GREEN – to be connected via junction box
AR-049/YR:	Traffic light with 2 lamps – YELLOW-RED - to be connected via junction box
AR-049/RYG:	Traffic light with 3 lamps – RED-YELLOW-GREEN – to be connected via junction box
AR-049/GYR:	Traffic light with 3 lamps – GREEN-YELLOW-RED – to be connected via junction box

Remark:

- All combinations of Red (R) – Yellow (Y) and Green (G) are available.
- Always mention the order of the lamps from top to bottom.