

Explosion-safe LED Traffic Light AR-045

Suitable for zone 2 / 22. With 1, 2 or 3 colors.



Characteristics

- ATEX certified
- Suitable for use in gas and dust environments, zones 2 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



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



Description

Artidor's explosion-safe AR-045 LED traffic light is engineered for operation under the most demanding conditions. Its rugged 316 stainless steel housing, impact-resistant 4 mm lenses, 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-045 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 lamp can operate in continuous mode or flash 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-045 LED traffic light is explosion-safe and fully certified in accordance with European Directive 2014/34/EU (ATEX 114). It also carries CE marking.



ZONE 2/22



standards
committee member



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Technical data

Explosion safety:	II 3 G Ex ec mc IIC T4 Gc, II 3 D Ex mc tc IIIC T135°C Dc
European directives:	2014/34/EU (ATEX 114), 2014/30/EU (EMC)
Applied standards:	EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-18:2015 / A1:2017 and EN 60079-31:2014
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 0,5 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 +60 °C
Dimensions LxDxH:	1 lamp version: 158 x 278 x 257 mm – without brackets 2 lamps version: 158 x 278 x 410 mm – without brackets 3 lamps version: 158 x 278 x 525 mm – without brackets
Mounting:	2 stainless steel brackets
Weight:	1 lamp version: 4,4 kg 2 lamps version: 8,4 kg 3 lamps version: 11,4 kg



AR-045/R



AR-045/RG



AR-045/RYG

Order code

AR-045/R:	Traffic light with 1 lamp – RED – 5m cable for direct connection
AR-045/Y:	Traffic light with 1 lamp – YELLOW – 5m cable for direct connection
AR-045/G:	Traffic light with 1 lamp – GREEN – 5m cable for direct connection
AR-045/RG:	Traffic light with 2 lamps – RED-GREEN – to be connected via junction box
AR-045/RY:	Traffic light with 2 lamps – RED-YELLOW – to be connected via junction box
AR-045/YR:	Traffic light with 2 lamps – YELLOW-RED - to be connected via junction box
AR-045/RYG:	Traffic light with 3 lamps – RED-YELLOW-GREEN – to be connected via junction box
AR-045/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.