Explosion-safe Occupancy Sensor AR-024
Based on passive infrared technology

ARTIDOR

Features

- ATEX-certified
- Suitable for use in locations with gas and dust, zone 2 and 22
- Ingress protection level IP65
- Coated aluminum housing
- Registration angle circular 360°
- Range of coverage 24 x 44 m
- Dimmer setting 10 – 2.000 Lux
- Preset time 15 seconds – 30 minutes
- Mounting height 2 – 12,5 m
- Mounting bracket included, adjustable

II 3 G Ex ec mc IIC T6 Gc
II 3 D Ex mc tc IIIC T80˚C Dc

Description

The Artidor explosion-safe occupancy detector AR-024 is based on passive infrared technology and capable of detecting movements of heat sources. Thanks to the wide opening angle and its 12,5 m range, this detector is suitable for monitoring large areas.

The occupancy detector is designed for use inside large buildings for example warehouses and combines energy saving and the protection of the environment in addition to convenient lighting.

Motion detectors switch the light depending on movements and the ambient light. The sensor itself does not emit any radiation and is therefore called "passive". Unlike motion detectors, occupancy detectors can also switch off lighting if there is sufficient daylight, because of their advanced mixed light measurement (the principle on which occupancy detectors are based). Do not install detectors near heat sources like air-conditioning units, lights or radiators. The sensor electronics offers a potential free contact for switching up to 1,150 VA load.

The occupancy detector is mounted on top a coated aluminum housing. The explosion safety to gas and dust is arranged by the appliance of protection degrees against ignition "Increased safety", "molding" and "protected by enclosure".

The Artidor AR-024 occupancy detector is certified in accordance with European Directive 2014/34/EU (ATEX 114) for use in gas or dust hazardous areas and is CE marked.

NEN STANDARDS COMMITTEE MEMBER

Ex

TÜV ISO 9001

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Technical data

Explosion safety:	II 3 G Ex ec mc IIC T6 Gc, II 3 D Ex mc tc IIIC T80˚C Dc
Applicable EU directives:	2014/34/EU (ATEX 114) and 2014/30/EU (EMC)
CE conformity:	EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-18:2015 / A1:2017 and EN 60079-31:2014
Sensor:	Passive infrared; 0,8 W power consumption
Mounting height:	2 – 15 m
Range of coverage:	An oval area of 24 x 44 m
Registration angle:	Circular 360°
Dimmer setting:	10 – 2,000 Lux
Preset time:	15 seconds – 30 minutes
Supply voltage:	230 VAC ± 10%
Switch power AC1:	1,150 VA (resistive and light inductive loads)
Output:	Potential free contact
Electrical connections:	Terminals 8 x 2,5 mm²
Material:	Die cast aluminum housing (RAL 7015, slate grey), cable glands nickel plated brass
Entries:	M20 cable glands (2x) for cables from 6 – 14 mm in diameter
Ingress protection:	IP 65 according to EN 60529
Mounting bracket:	Stainless steel mounting bracket, mounting holes Ø6,5 (4x), mutual distance 60 x 60 mm
Ambient temperature:	-20 ˚C to +50 ˚C
Housing dimensions (L x W x H):	120 x 120 x 195 mm (including mounting bracket, excluding cable glands)
Detector dimensions:	65 x Ø98 mm
Weight:	1,860 grams (incl. mounting bracket)

Ordering codes

Type number	Details
AR-024	M20 (2x) for cables from 6 – 14 mm in diameter