

Explosion-safe Occupancy Sensor AR-024

Based on passive infrared technology



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 – 10 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 10 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. Lighting will be switched off. 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 is arranged by the appliance of protection degree against ignition “Encapsulation”. The explosion safety to dust is arranged by the appliance of protection degree against ignition “protected by enclosure”.

The ARTIDOR 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.



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Technical data

Explosion safety:	ATEX 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 60079-0:2012 / A11:2013, EN 60079-7:2015, EN 60079-18:2015 and EN 60079-31:2014
Sensor:	Passive infrared; 0,8 W power consumption
Mounting height:	2 – 10 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:	2,000 VA (resistive and light inductive loads)
Output:	Potential free contact
Electrical connections:	Terminals 8 x 2,5 mm ²
Material:	Die cast aluminum housing, RAL 7032, silver gray, polyamide frame with impact resistant safety glass, cable glands nickel plated brass
Entries:	M16 or M20 cable glands (2x)
Ingress protection:	IP 65 according to EN 60529
Mounting bracket:	Black steel mounting bracket, mounting holes Ø 7 (4x), mutual distance 81 x 88 mm
Ambient temperature:	-20 °C to +50 °C
Housing dimensions (L x W x H):	120 x 120 x 100 mm (excl. cable glands)
Detector dimensions:	65 x Ø98 mm
Weight:	2,175 grams (incl. mounting bracket)

Ordering codes

Type number	Details
AR-024/001	M16 (2x) for cables from 5 – 9 mm in diameter (default)
AR-024/002	M20 (1x) and M16 (1x)
AR-024/003	M20 (2x) for cables from 9 – 13 mm in diameter