Explosion-safe Motion Sensor AR-021

Based on radar detection technology

ARTIDOR

Features

- ATEX-certified
- Suitable for use in locations with gas and dust, zone 2 and 22
- Ingress protection level IP66
- Coated aluminum housing
- Max. output power up to 4,000 VA
- Opening angle of 140°
- Detection range adjustable from 1 – 8 m
- Light sensitivity adjustable from 3 – 3,000 lux
- Stainless steel mounting bracket included

II 3 G Ex nR IIC T6 Gc
II 3 D Ex tc IIIC T80°C Dc

Description

The Artidor motion sensor is based on the latest high frequent radar technology and therefore capable of detecting even the slightest movements.

Thanks to the wide opening angle and its 8 m detection range, any movement is detected. Even through doors, glass panes and thin walls, movements will be detected.

The sensor electronics offers an electrical output that can deliver up to 4.000 VA on resistive or light inductive loads and an extra potential free contact. The intelligent, microprocessor-based sensor technology switches the light ON and OFF again after the pre-set time. Most convenient, safe and both energy and cost saving.

The motion sensor can successfully be applied in porches, circulation areas, staircases, storerooms, cold storage rooms and business areas. The motion sensor meets the latest explosion safety requirements and can be applied in a wide range of locations such as at oil and gas production sites, in chemical and petrochemical industries, the pharmaceutical industry and the food industry.

The Artidor motion sensor 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

ISO 9001

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Technical data

Explosion safety:	II 3 G Ex nR IIC T6 Gc, II 3 D Ex 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 60079-15:2010, EN 60079-31:2014
Sensor:	5.8 GHz radar frequency, 1 mW transmission power
Detection range:	1 – 8 m, adjustable
Registration angle:	360° with 140° opening angle
Light sensitivity:	3 – 3,000 Lux
Preset time:	10 seconds – 12 minutes
Supply voltage:	230 VAC, 50 Hz
Switched power AC1:	4,000 VA (resistive and light inductive loads)
Rated current 250 VAC:	16 A continuous
Rated current 24 VDC:	2 A (potential free contacts 1 – 2 only)
Output:	Switched 230 VAC supply (L', N2) and potential free contact (1, 2)
Electrical connection:	Connection terminals 8 x 2.5 mm²
Material:	Die cast aluminum housing, RAL 7015, slate grey, polyamide frame with impact resistant safety glass
Entries:	M20 cable glands suitable for use with cables from Ø6 – Ø 14 mm
Ingress protection level:	IP66 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
Dimensions housing:	160 x 80 x 128 mm (incl. mounting bracket)
Weight:	1,340 grams (incl. mounting bracket)

Ordering codes

Type number	Details
AR-021	M20 cable glands suitable for use with cables from Ø6 – Ø 14 mm

This document is subject to change without notice.