

# AR-021 MOTION SENSOR

Zones 2, 22

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## ATEX INSTRUMENTATION

## ZONES 2 (gas) & 22 (dust)

The AR-021 Motion Sensor utilizes cutting-edge high-frequency radar technology, making it capable of detecting even the slightest movements. With a wide detection angle and a range of up to 8 meters, the sensor reliably identifies motion—even through doors, glass panels, and thin walls.

The sensor's electronics include an electrical output capable of handling up to 4,000 VA for resistive or lightly inductive loads, as well as an additional potential-free contact. Its intelligent, microprocessor-based technology ensures the light switches ON and OFF automatically after the pre-set duration, offering convenience, safety, and significant energy and cost savings.

This motion sensor is ideal for applications in porches, circulation areas, staircases, storerooms, cold storage facilities, and business environments. Compliant with the latest explosion safety standards, the AR-021 is suitable for use in diverse settings, including oil and gas production sites, chemical and petrochemical plants, the pharmaceutical industry, and the food industry.



### ITEM REFERENCES

Designation:	Item No.:
AR-021 Motion Sensor	

### TECHNICAL SPECIFICATIONS

Marking:	II 3G Ex nR IIC T6 Gc II 3D Ex tc IIIC T80°C Dc
Certificate:	Declaration of Conformity
Standards applied:	EN 60079-0:2018, EN 60079-15:2010 and EN 60079-31:2014
Operating temperature:	-20°C to +50°C
Sensor:	5.8 GHz radar currents, 1 mW transmission capacity
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)
Output contacts:	1. Switched 230 V AC supply (L, N2)   2. Potential free contact (1, 2)
Rated current 250 V AC:	16 A continuous
Rated current 24 V DC:	2 A (potential free contacts 1 – 2 only)
Output:	Switched 230 VAC supply (L, N2) and potential free contact (1, 2)
Connection:	Connection terminals 8 x 2.5 mm <sup>2</sup>
Material:	Die cast aluminum housing, RAL 7015, slate grey, polyamide frame with impact resistant safety glass
Ingress protection:	IP66 according to EN 60529
Mounting bracket:	Stainless steel mounting bracket, mounting holes Ø6,5 (4x), mutual distance 60 x 60 mm
Dimensions:	160 x 80 x 128 mm (incl. mounting bracket)
Weight:	1340gr (incl. mounting bracket)
Cable entries:	2xM20 cable glands suitable for use with cables from Ø6 – Ø 14 mm