AR-024 OCCUPANCY SENSOR

Zones 2, 22

9

INSTRUMENTATION

ATEX INSTRUMENTATION   **ZONES 2 (gas) & 22 (dust)**

The AR-024 explosion-safe occupancy detector 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. This 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.

Declaration of Conformity

ITEM REFERENCES	
Designation:	**Item No.:**
AR-024 Occupancy Sensor	9E0301

TECHNICAL SPECIFICATIONS	
Marking:	II 3G Ex ec mc IIC T6 Gc II 3D Ex mc tc IIIC T80ºC Dc
Certificate:	Declaration of Conformity
Standards applied:	EN 60079-0:2018, EN 60079-15:2010 and EN 60079-31:2014
Operating temperature:	-20ºC to +50ºC
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:	110 - 240 VAC, 50 / 60 Hz
Switched 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
Ingress protection:	IP65 according to EN 60529
Mounting bracket:	Stainless steel mounting bracket, mounting holes Ø6,5 (4x), mutual distance 60 x 60 mm
Dimensions:	120 x 120 x 195 mm (including mounting bracket, excluding cable glands)
Detector dimensions:	65 x Ø98 mm
Weight:	1860gr (incl. mounting bracket)
Cable entries:	2xM20 cable glands for non armoured cable Ø6 – Ø14 mm

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