AUTOLIGHT XS

HF motion detector for luminaires

Miniature motion detector

The sensor is a particularly small 5.8 GHz HF motion detector for switching of luminaires with any kind of illuminants (e.g. LED) in a very energy efficient way. It is particularly suitable for price sensitive luminaires with defined electric loads.

The sensor provides a rotationally symmetric and conical detection field. It offers a high detection speed combined with a large detection field. Additionally it is also compatible with almost all marketable quality electronic ballasts (without corridor function). Customized versions are available on demand.

Characteristics

- Particulary suitable for use with lower electric loads
- Compact-sized and small casing
- Simple settings via potentiometer
- Integrated test mode
- Implemented immunity against other sensors in the same detection field
- Master/Master and Master/Slave installations according to max. switching capacity

Technical data	
Operating voltage	230 V +/- 10 %, 50 Hz
Switching capacity	max. 400 VA recommended values: - for at least 300k switching cycles: inrush current max. 20A / 200 µs - for at least 100k switching cycles: inrush current max. 60A / 200 µs For a functional guarantee at switching cycles >20 A we offer a compatibility test*
Standby power	< 1.3 W
Interfaces	3-pole pluggable clamp terminal (N, L, L') for 1.5 mm² cable
Sensor principle	HF motion detector
Frequency range	5.8 Ghz +/- 75 MHz
Radiated power	< 5 mW
Detection range	up to 15 m (frontal, wall mounted) up to 10 m (diamater, ceiling mounted)
Detection angle	approx. 120° (depending on cover)
Motion detection	0.3 ... 3 m/s (1 ... 10 km/h)
Sensitivity	20 ... 100 %
Hold time	10 ... 1200 s
Brightness	1 ... ∞ Lux
Mounting height	max. 2.70 m (wall mounting), max. 4.00 m (ceiling mounting)
Operating temperature	-20 ... +70 °C
IP rating	IP 20 (mounting inside the luminaire)
Size	66 x 50 x 31.3 mm (L x W x H, incl. mounting lugs)
Certificates	CE (additional certificates on request)

* This information refers to installation requirements with normal relay wear and tear.
See also MICAS data sheet "relay switching cycles".