902 MHz Motion Detector with Illumination Sensor

E9T-MDS

Wireless Motion and Light sensor shares data through 902 MHz to gateways and access points for integration with IOT devices.

Key applications include lighting control based on presence and ambient light level as well as space utilization and occupancy monitoring.

Self Powered sensor uses a photocell to collect and store energy from ambient indoor light for operation in complete darkness for up to 4 days. An option battery may be installed for operation in rooms that may be dark for longer than 4 days at a time.

E9T-MDS reports motion detection and illumination measurements wirelessly using the EnOcean radio standard and therefore does not require any wiring.

Key parameters of E9T-MDS can be configured using a mobile phone and the integrated NFC (ISO 14443) interface. Additionally, it has a simple configuration interface consisting of one button, one switch and one LED allowing for configuration without additional tools.

E9T-MDS transmits the measured light level and the status of the motion detection sensor on a periodic basis. The motion sensor of E9T-MDS is permanently active so that motion will be reported immediately.

E9T-MDS supports secure communication with AES-128 encryption and authentication based on a random, device-unique private key.

SPECIFICATIONS

Part Number	E9T-MDS
Power Supply	Integrated solar cell
Transmission Power	+99 dBµV
Motion Detection Radius	typ.16.5 ft (5 m) when installed 8.5 ft (2.5 m) high
Light Level Sensor Range / Accuracy	0 … 65000 Lux / +- 10 %
Recommended Installation	Ceiling-mounted at 8.5 ft (2.5 m) - 10 ft (3 m) height
RF Communications	902.875 MHz
Required Light Level	200 lux for 6 hours per day
Operation Time Without Light	96 hours
Backup Battery Type	CR2032 coin cell (optional)
Transmission Range	typ. 656 ft (200 m) free field / 98.5 ft (30 m) indoor (for guidance only)
Operating Conditions	32 °F (0 °C) - 140 °F(60 °C) Indoor use only 20 % r.h.- 85 % r.h. Non-condensing
Dimensions	4.46” L x 2.58” W x 1.21” H (113,2 mm L x 65,5 mm W x 30,7 mm H)
Radio Certifications	FCC (US), ISED (Canada)

115 S State St, Suite B
Lindon, UT 84042

T: (801) 349-1200
F: (801) 614-7100
Sales@ILLUMRA.com