

Operational description

The EUT, Industrial LuNAR, is ceiling detector with a mounting height of 2.7 m to 8.6 m for Indoor use. It uses Dual Tech Technology for detecting: one technology is PIR (Passive Infra-Red) and the other is MW (microwave). Specifically, it includes 3 PIR channels and one MW channel. Also, it has RS485 bus for communication with a central unit and it is settable by active IR remote control device. Its nominal power supply is 12VDC, from which it draws typically 20 mA.

The MW module involves a MW oscillator at 10525+/-10 MHz, mixer diode and antenna. Its power supply is a stabilized voltage regulator of 5VDC. The antenna is integral: it is a patch antenna, printed onto the PCB of the module and thus without any RF connector. Output radiated power is 9 dBm e.i.r.p. maximum