Comlight Eagle Eye 3.0 Datasheet

Comlight
Maximum Safety Minimal Energy

Eagle Eye is an intelligent Motion Sensing Street Lighting control system based on radar detection. The system automatically activates the lights as soon as there is movement in the area, providing full light ahead and dims down for energy saving when no-one is around.

Technical data

Electrical

- Supply Voltage: 100-240 VAC, 47-63Hz
- Power Consumption: 1,5W (peak 4W with Gateway unit)
- Maximum Load: 16A

Dimming Control Output

- Digital: DALI
- Analog: 1-10V
- Step DIM: Relay Control
- Insulation Classification: Basic

RF Communication

- Frequency: 868.35 MHz
- Output Power: ≤13.9 dBm

Motion Detection using a K-Band Radar

- Frequency: 24.050-24.250GHz
- Output Power: ≤26.9 dBm
- Sensor: Doppler Radar

Mechanical

- Operating temperature range: -30 to +55 °C
- Protection Type: IP66 Electronics Chamber, IP44 Outer Connector
- Insulation Material: PVC, UV Resistant
- Housing Material: Luran S KR 2867 C WU (PC and ASA) - Blend
- Color: RAL7001
- Dimensions: Height 291mm, Width 100mm, Depth 120mm
- Weight: 680g

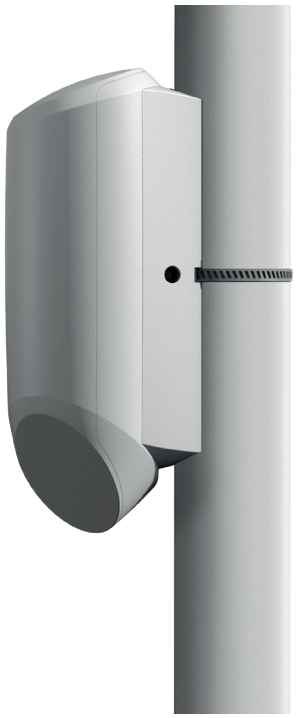
System Options

- Gateway alt. 1 (LTE Cat-1, UMTS/HSPA, GSM/GPRS/EDGE)
- Gateway alt. 2 (LTE Cat-M1, NB-IoT, GSM/GPRS/EDGE)
- Energy Metering
- GPS Module

System Requirements

Luminaire must support instant dimming and light level commands must be able to overrule any pre-programmed scheduled dimming profiles.

Comlight radar detectors are defined as Short Range Devices according to CEPT/ECC ERC. Recommendation 70-03, edition of February 2014.



Standards:

Product is labeled with CE mark and has been tested according to the following standards:

RoHS & WEEE
Directive 2011/65/EU
Directive 2012/19/EU
Directive 2009/125/EC

Safety:
IEC 61347-2-11 (First Edition):2001
used in conjunction with
IEC 61347-1:2015 (Third Edition)

EMC:
ETSI EN 301 489-01:V2.1.1
Final draft ETSI EN 301 489-03:V2.1.1
Draft ETSI EN 301 489-51:V2.1.0
ETSI EN 301 908-01:V11.1.1
ETSI EN 301 908-13:V11.1.2
ETSI EN 300 440:V2.1.1

Radio:
ETSI EN 300 220-1 V3.1.1 (2017-02)
ETSI EN 300 220-2 V3.1.1 (2017-02)

Cable Connection:

Cable Connection: < 4-wire, Ø6 - 12 mm, 1,0 - 2,5 mm2 wire

WIRE NUMBERING/COLOR

Controls		Step	AC - EM	AC - L1	AC - N	- DALI - (1-10V)	+ DALI	+ (1-10V)
4-wire cable	Step	3/BK		1/BN	2/BU			
	DALI			1/BN	2/BU	3/GY	4/BK	
	1-10V			1/BN	2/BU	3/GY		4/BK

National restrictions may apply, 25 mW = 14 dBm, 500 mW = 27 dBm 500 mW = 27 dBm