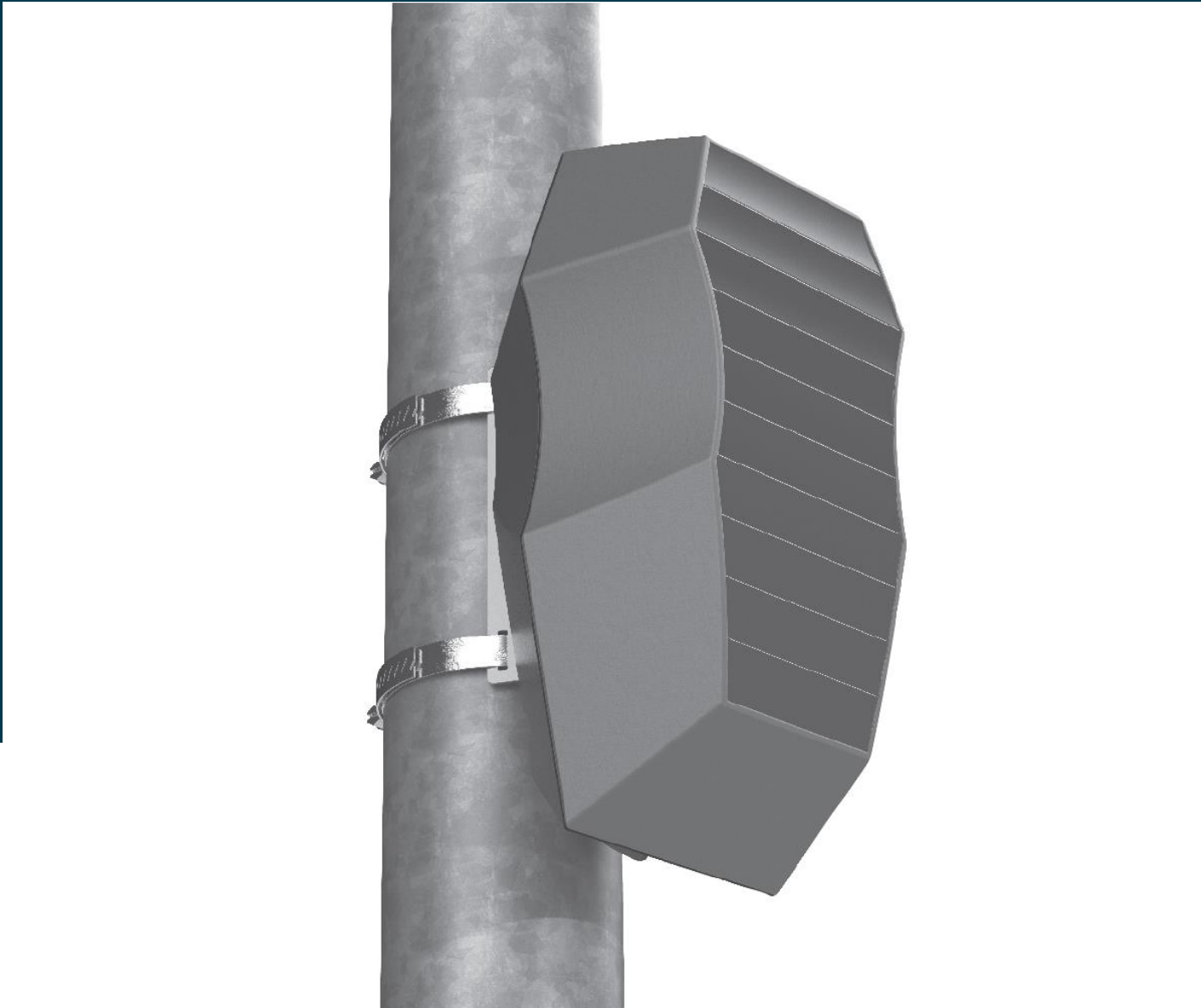


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eluminocity Sensor Technology
Sensor Hub for Smart Urban Infrastructure

Data Sheet



Sensor Hub for Smart Urban Infrastructure

Sensor Hub Key Data

Sensor Hub in external housing for the mounting onto light poles and building walls	
Input Voltage	220-240 VAC, 50/60 Hz
Surge Protection	10 kV
Sensor Hub Features	Recognition and detection of moving objects
Over-the-Air Update	Firmware, software, configuration
Remote Monitoring	eluminocity Backend (visualization of system and performance data)
Remote Control	eluminocity Backend for configuration of light intensity and light profile
Power Consumption	8-15 W (depending on the choice of connectivity)

Radar Sensor | Hardware | Connectivity

Sensor Hub in external housing for the mounting onto light poles and building walls	
Radar Technology	Radar, 24 GHz
Number & Position of Sensors	2x lateral radar sensor (right, left), <i>optional 1x front radar sensor</i>
Motion Detection	Pedestrians, cyclists and motor vehicles
Detection Area Right / Left*	Pedestrians 20 m (65.6 ft) / cyclists and motor vehicles 90 m (295.3 ft)
Detection Area Front*	8-10 m (26.2-32.8 ft)
Speed Detection*	1-100 km/h (0.6-62.1 mph)
Operating Range	5-12 m (16.4-39.4 ft) mounting height
Controller	Infineon XMC 4700 Microcontroller
Connectivity	Intel LTE Modem Cat.1 / Cat.M1 for M2M communication
Data Processing	Direct data processing on microcontroller
End-to-End Security	Hardware encryption via Infineon OPTIGA Trust X Security Chip

*This information refers to 6.5 m (21.3 ft) mounting height

Sensor Hub Standards | Sensor Hub Certificates

Sensor Hub in external housing for the mounting onto light poles and building walls	
IP Code	IP 66
Protection Class according to EN 61140	Protection Class II

Dimensions | Material | Color

Sensor Hub in external housing for the mounting onto light poles and building walls	
Length	208 mm (8.19 inch)
Height	122 mm (4.80 inch)
Width	82 mm (3.23 inch)
Material	Polycarbonate, flame-resistant, UV resistant
Color	RAL 9005 (jet black)