elitedali MSensor7 Specifications

Introduction

Fulham's **elite**dali™ MultiSensor7 is an IP65 rated DALI network, miniature, flush mounted, PIR passive infrared (PIR) motion sensor and photocell designed to be part of a DALI network.

Functioning as a presence detector, the unit returns occupancy data to the DALI network.

The photocell provides a lux level measurement value to the DALI network.

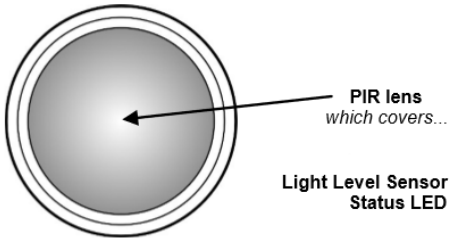
This unit is manufactured and especially configured to work with Fulham's **elite**dali for Niagara AX® & N4® software enabling seamless IoT connectivity.

This highly compact DALI MultiSensor offers daylight-dependent control and presence detection. With its built-in intelligence and used with Fulham's **elite**dali product, it enables a Tridium Niagara Framework® Edge IoT DALI system the important ability to detect movement and to measure the lighting levels. This information when used with **elite**dali for Niagara offers highly automated lighting control including constant light level or daylight harvesting, maximising the use of natural light to minimise expense of energy to achieve required light levels. Further as part of a native Niagara Framework solution it can share data seamlessly with other non-lighting devices and subsystems both locally and remotely for operational efficiency, continuous optimization, space optimization, analytics and AI applications.

Features

- Miniature size
- Unobtrusive design
- Mounting at heights up to 7m
- Detection range up to 16m at a 7m mounting height
- Ideal for in-fixture mounting applications
- IP65 rated for internal and external building use
- 5 year warranty

Sensor head



PIR Sensor
Detects movement within the unit's detection range, allowing load control in response to changes in occupancy.

Light Level Sensor
Measures the overall light level in the detection area

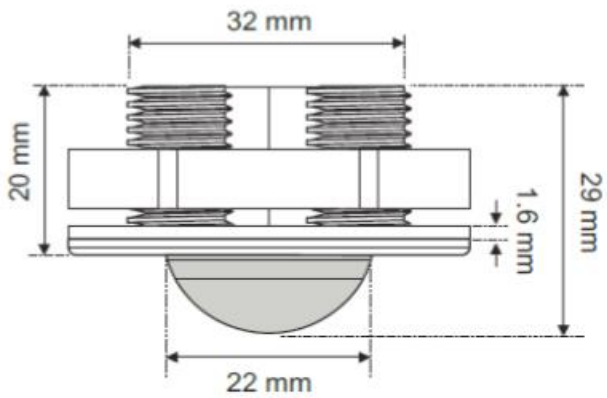
Status LEDs
The LED flashes **R**ed to indicate the following:

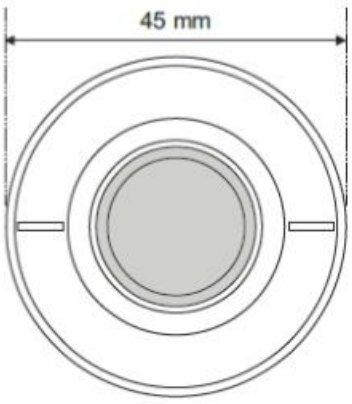
Walk Test LED active	*when movement is detected*
Valid setting received	

Specifications & Dimensions

Technical data

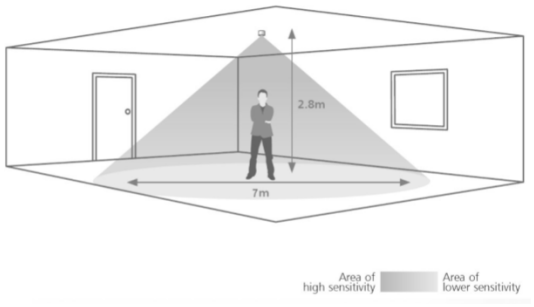
Dimensions	See diagrams opposite
Weight	0.10kg
Supply Voltage	9.5VDC—22.5VDC via DALI
Supply Current	8mA
Temperature	-10ºC to 35ºC
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant ABS and PC/ABS
Type	Class 2
IP rating	IP65 (BS EN 60598)
Compliance	EMC-2004/108/EC LVD-2006/95/EC





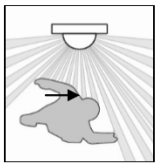
Detection Diagrams

Range



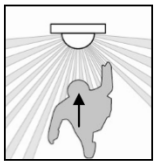
Note: illustration shows an average of the walk across

Walk across



Height	Range Diameter
7m	16m
2.8m	9m

Walk towards



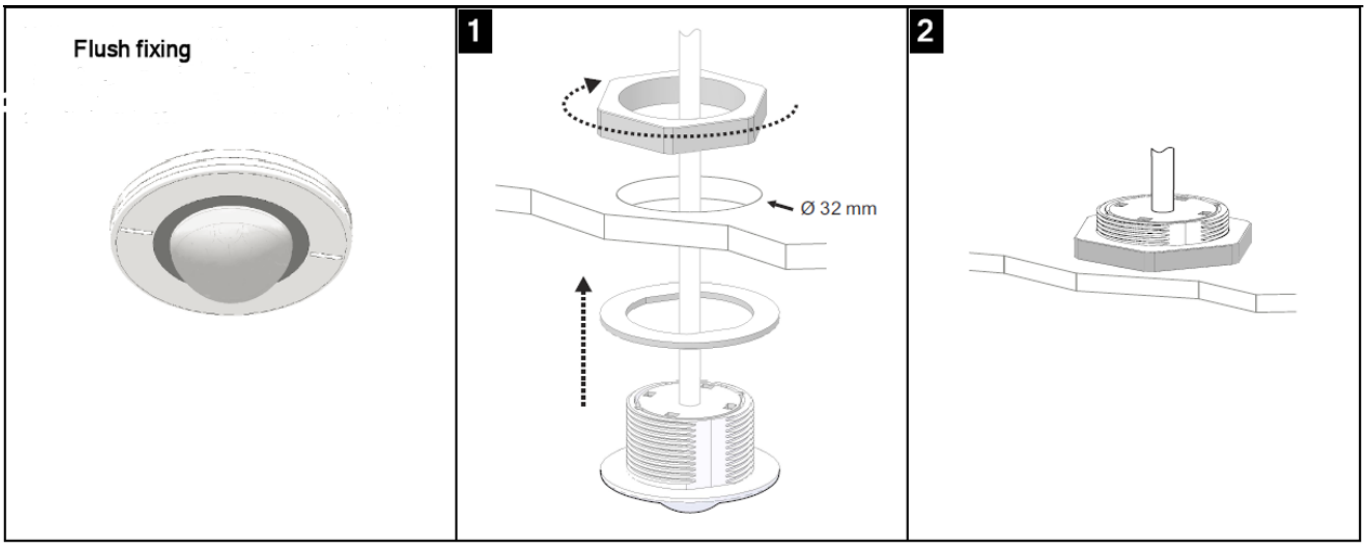
Height	Range Diameter
7m	10m
2.8m	5m

Installation

Choosing a suitable location:

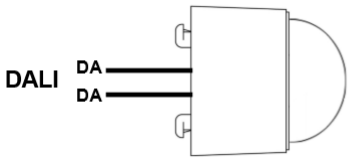
The detector should be sited so that the occupants of the room fall inside the detection pattern shown above at the recommended ceiling height of 2.8m. Note that the lower the sensor is installed the smaller the detection range becomes, subject to the parameters shown above. It is also important to –

- Avoid direct sunlight entering the sensor
- Do not to place within 1m of forced air heating or ventilation
- Do not fix to a vibrating surface
- Do not exceed maximum DALI network cable length
- Do not exceed maximum DALI bus power loading of the DALI power supply



Wiring

The elitedali.Msen7 is supplied with two (2x) 1m wires to connect directly to the DALI network. The device wiring is polarity insensitive.



Application Example

IMPORTANT NOTICE

This device must be installed by a qualified electrician in accordance with all locally enforced regulations and codes!

Order Details

Model Number	Description
elitedali.MSen7	IP65 Miniature DALI MSensor
elitedali.Msensor/FRW	Miniature PIR head flush ring - white

Licensing Options

The **elite**dali MSensors are a Niagara Framework licensed option, so it is important that when advising Fulham of how many **elite**dali Connectivity Kits are required to be licensed to a suitable Niagara platform that at the same time Fulham is advised of how many MSensor units need to be licensed to each Niagara AX or N4 platform.

Additional **elite**dali compatible DALI products are also available, click here for more details.

Contact Details

Fulham Co., Inc
Unit 9b, Intec 2, Intec Business Park, Wade Road,
Basingstoke, Hampshire, RG24 8NE, UK

Company Number: 09926697
Tel: +44 (0) 1256 818700
Email: sales.uk@fulham.com
Web: http://www.fulhamcontrols.com
Twitter: www.twitter.com/elitedali
LinkedIn: elitedali for Niagara Group