



Batten Finger Sensor

Q6H



Installation and Commissioning Instructions

W5052

June 2016 - Rev C



Batten Finger Sensor: Q6H - Switching

Only suitably qualified personnel should install this equipment.

This passive infrared presence detector is designed to be fitted to a batten-style luminaire.

Installation

1. Remove the M20 knockout from the end cap of the luminaire.
2. Pass the sensor wires through from the outside and insert the threaded end of the sensor into the hole.
3. A polarising plate can be made in order to prevent rotation of the sensor - an example design is given below (Fig. 4).
4. If a polarising plate is to be used, pass the wires through the slot and position the polarising plate against the inside face of the end cap. Ensure that the tab is positioned correctly i.e. at the ceiling side, away from the lamp.
5. Fit and tighten the locknut.
6. Connect the wires in accordance with the wiring instructions.

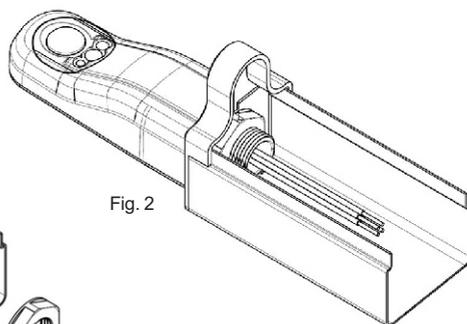
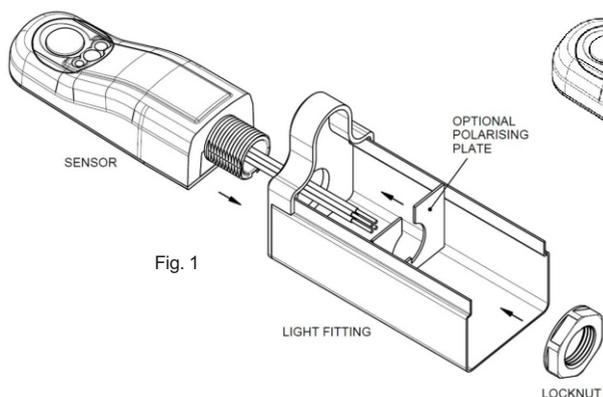


Fig. 2

If there is insufficient space for the locknut, the adaptor shown below (Fig. 3) can be used.

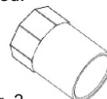


Fig. 3

20mm Female Adaptor
MK part number EFA/2

Polarising Plate (not supplied)

The purpose of the polarising plate is to ensure that the sensor does not rotate from the correct position, i.e. pointing vertically downwards, during transport or installation.

The two overall dimensions marked 'SEE TEXT' need to be made such that when the plate is positioned against the inner face of the luminaire end cap, it cannot rotate.

The 3.5mm 'tab' should be located closest to the ceiling (away from the lamp). The 6.0mm slot is optional and is to allow the wires to pass through for ease of assembly.

Material can be plastic sheet, minimum thickness 1.0mm, recommended thickness 1.5-2.0mm, or mild/stainless steel sheet, minimum thickness 0.6mm, recommended thickness 1.0-1.6mm.

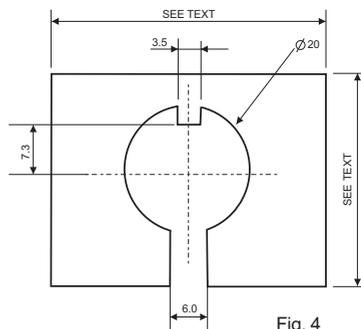
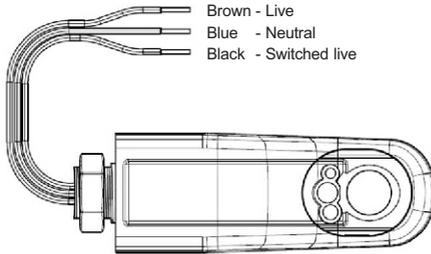
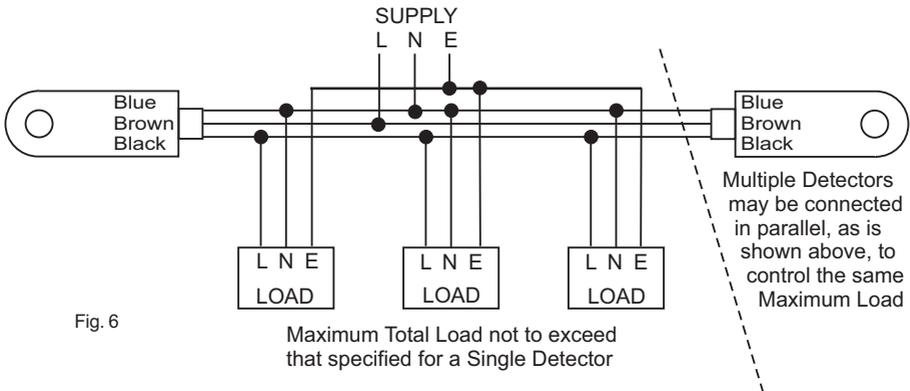


Fig. 4

Electrical Connections



Always check product label before connecting.

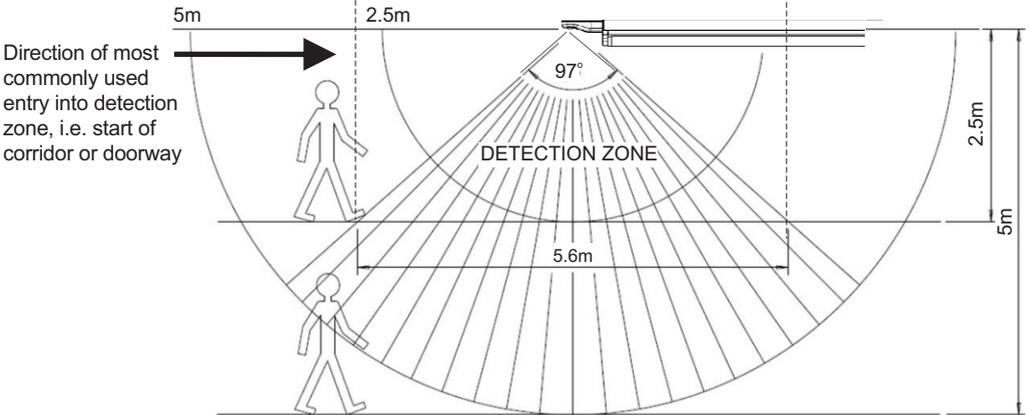
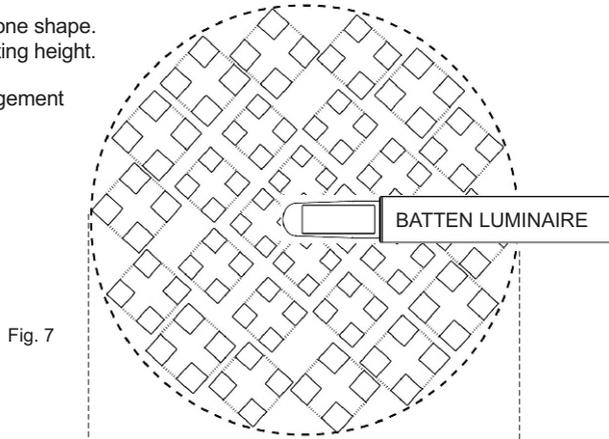


Detection Profile

Plan View

Detection pattern is a 360° cone shape.
Diameter is 2.25 x the mounting height.

The squares show the arrangement
of the detection pattern.



If the distance between the bottom of the sensor and the bottom of the end cap exceeds 59mm, there may be a blind spot in the detection zone.

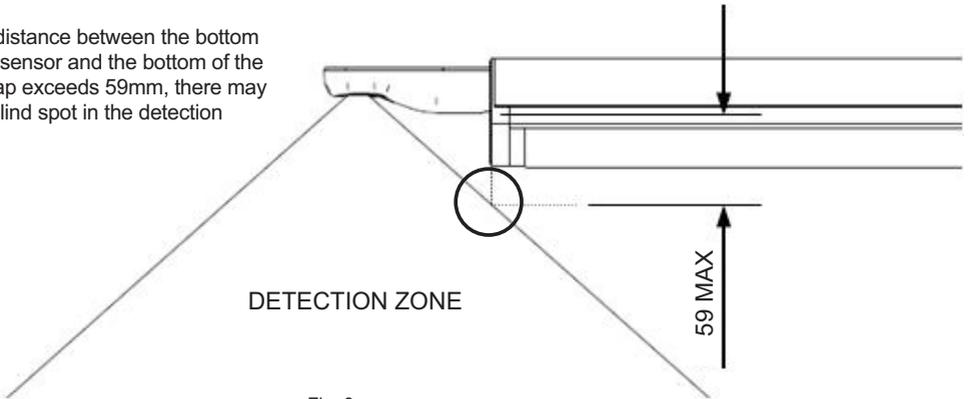


Fig. 9

Walk Testing

In order to verify the installation, there is an inbuilt facility (Walk Test Mode) to temporarily reduce the time delay to 10 seconds. A COMAHP or COMRHP Programmer is required to access this facility.

Using the COMRHP:

Press the 'TEST' button to enable walk test mode.

Move around the area that is being controlled, stopping for 10 seconds to allow the lights to switch off, before moving and triggering the lights back on.

Using the COMAHP:

Go to the Utilities menu, choose 'Command/Plus/Gamma' then 'User Test' and 'Walk Test', point the programmer at the detector and press OK.

Move around the area that is being controlled, stopping for 10 seconds to allow the lights to switch off, before moving and triggering the lights back on.

After 5 minutes, the time-out will be restored to what it was before walk test was enabled.

Notes on Walk Testing:

- During walk test, after the lights have turned off, wait 5 seconds before moving again because the sensitivity is deliberately reduced for a few seconds following switch off.
- Sensitivity is greater when approaching the circular footprint at a tangent rather than heading towards the centre (see Fig. 7).
- Most luminaires take approximately 1 second to strike after presence has been detected.
- The detection pattern is cone-shaped which means that when standing at the very edge of the detection footprint only a person's feet will be visible (see Fig. 8).

Default Parameter Settings

The units are supplied with factory default settings (Power-Up On, fully Automatic operation, a 20 minute Off Delay, no 24hr Cycle).

Dimensions

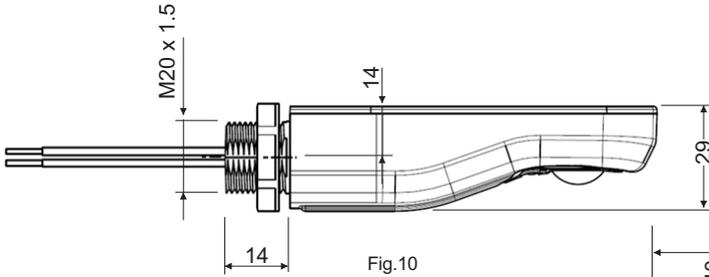


Fig.10

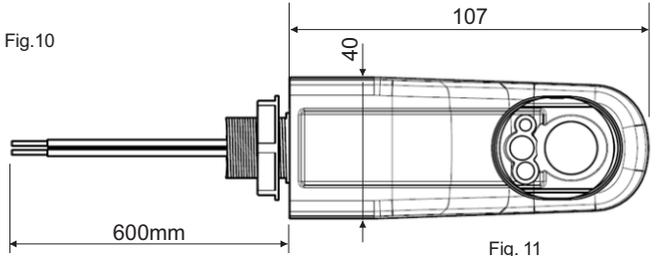


Fig. 11

Technical Data

MAXIMUM RECOMMENDED MOUNTING HEIGHT: 5 metres

OPERATING VOLTAGE: 230V~ 50Hz (UK & Europe)

POWER CONSUMPTION: <0.5W

CAPACITY: 2A Switching

MAXIMUM NUMBER OF BALLASTS: 4 (Electronic or HF Ballasts)

WEIGHT: 100g

COLOUR: White RAL9010

MATERIAL: Flame retardant PC

IP RATING: 4X - estimated

Important Additional Notes

1. A means for disconnection must be incorporated in the fixed wiring in accordance with the current wiring regulations.
2. This equipment switches lights no more frequently than would a responsible human occupant. However, manufacturers of some particular lighting types (e.g. '2D' luminaires) may specify a maximum number of switching cycles in order to achieve a predicted lamp life. Please check with the manufacturer of the luminaires to ensure that they are compatible with automatic controls in this respect.

This page left blank intentionally.

**FURTHER INFORMATION CONTACT
TECHNICAL SUPPORT**

Telephone: 0161 331 5700

E-mail: technical@whitecroftlight.com

<http://www.whitecroftlighting.com>