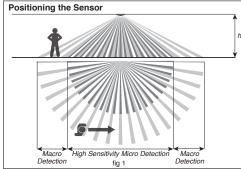
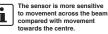


Part Number	Flush Mount	Surface Mount	Mains Switching	Low Voltage Switch Inputs	Office	Mid Bay	High Bay	Tilting
LS3260F	•				•			
LS3260SM		•			•			
LS3270F	•			•	•			
LS3270SM		•		•	•			
LS3283RF	•		•	•	•			•
LS3283RSM		•	•	•	•			•
LS3260MBF	•					•		
LS3260MBSM		•				•		
LS3260HBF	•						•	
LS3260HBSM		•					•	

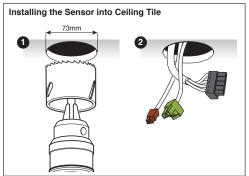


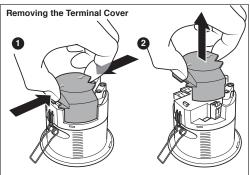
The sensor should be positioned on the ceiling in the centre of the occupied space. This product is available in three different mounting height variants; see fig. 1 and the table below. Ensure that the maximum recommended mounting height is not exceeded.

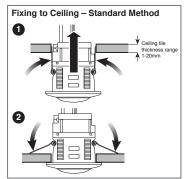
Avoid mounting next to an AC unit. For additional information on positioning please refer to Tilt and Lock the Sensor, overleaf.

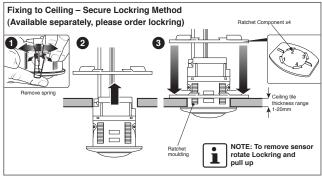


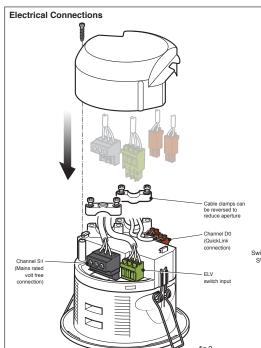
	Aspe (diamete				
Туре	Micro Detection - High Sensitivity	Macro Detection - Standard Sensitivity	Max recommended mounting height		
Office	2.8:1 (7m diameter @ 2.5m height)	4:1 (10m diameter @2.5m height)	3.5m		
Mid Bay	N/A	2:1 (20m diameter @10m height)	12m		
High Bay	N/A	1.9:1 (27m diameter @14m height)	16m		











## Adding an Extra Low Voltage Sensor Using QuickLink Bus (fig 3)

The wiring diagram below shows how to connect sensors together using the QuickLink Bus. QuickLink is a convenient way of wiring multiple sensors so that they share information (e.g. occupancy) and are able to work in harmony. Some sensors operate from a low voltage derived from the QuickLink bus and therefore do not require a mains connection – this enables fast and convenient installation. At least one sensor on the QuickLink bus must be mains-powered, then a further 3 (or fewer) low voltage sensors may be added. It is also permissible to connect two mains powered sensors together via the QuickLink bus.

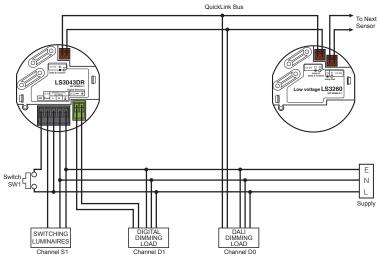
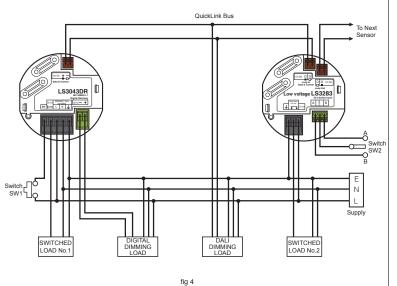


fig 3

### QuickLink System (fig 4)

The diagram below shows a more sophisticated low voltage sensor added to the QuickLink bus. This sensor not only extends the presence detection coverage as in the diagram below, but also adds the capability to control an additional switched load (volt free relay) and provides a 3-wire ELV switch input which may be configured for two single pole switches or a single pole two-way centre-off retractive switch e.g. MK K4900WHI.



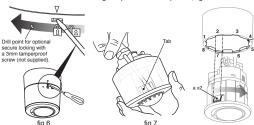


Product variants with "SM" suffix on the part number are supplied with the surface fitting kit as standard. The surface mount kit is available as a separate part, please order Surfmt.

(fig 5 set) (BESA) box or bushed to

## Uninstalling and Repositioning

Insert a flat headed screwdriver into the slot as shown and twist the collar anti-clockwise to release, fig 6. To separate the sensor from the surface mount casing, push a flat headed screwdriver onto the tab via the inside void of the casing and pull the sensor upwards, fig 7.



## Tilt and Lock the Sensor

Some products feature the ability to tilt the sensor (before fitting) by up to 10° in 2° increments, in order to extend the range in one direction. This may be useful in cases where the ideal mounting location is not available. The incresed range is indicated in fig 8.



QuickLink

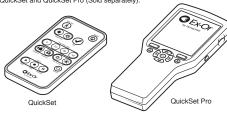


increased range

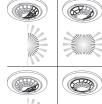
## WalkTesting / Lens Masking

trunking.

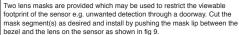
In order to verify correct installation, walk-testing is recommended. An infrared commissioning tool will be required to put the detector(s) into walk-test mode. Two infrared commissioning tools are available: QuickSet and QuickSet Pro (Sold separately).











Follow the instructions provided with the selected commissioning tool. While the sensor is in walk-test mode. the LEDs on the sensors are automatically enabled and it will turn on the lighting for only a few seconds each time occupancy is detected.



Stand out of the sensor's viewable footprint or remain motionless within the viewable footprint and wait for the lights to go out.



NOTE: After 5 minutes, the sensor will automatically exit walk-test mode without requiring any action from the operator.



Eight segments on the collar

allow up to four different rotational positions for the

NOTE: Setting the correct position is important when

using products with

sensor, when inserting tabs (a) into slots (1-8). See positioning the sensor

Wait a further 5 seconds for the sensor to stabilise then make a movement the lights should come back on. Observe that the detection / non-detection is as expected.

Earth Mains Rated ELV Switch QuickLink

This range of products features a rich set of adjustable parameters that may be programmed via the hand-held infrared commissioning tools in order to create a sophisticated lighting control installation. There are no physical switches or potentiometers on the product.

## Out of Box Behaviour

Prior to commissioning, the default settings for each channel of the sensor will be as follows:

Time Delay: 20 minutes

Photocell Setting: Always turn lights on when occupied

Dimming Level: 100%

Occupancy Mode: Automatic (lights Auto ON, Auto OFF)

Movement Sensitivity: Maximum

Digital Ballast Type DALI



NOTE: Please go to www.ex-or.com for a complete list of programmable parameters.

#### **Technical Data**

	Volt Free			Input			Loop In		Loop Out	
Marking	Е			A	Com	В	D	D	D	D
Colour	Black			Green		Red		Red		
Terminal type	Pluggable rising cage clamp			Pluggable screwless			Pluggab		Pluggable screwless	
Terminal capacity	1 x 0.5-2.5mm sq solid or stranded			1 x 0.5-1.5mm sq solid or stranded					1 x 0.5-1.5mm sq solid or stranded	
Recommended cable	Derive from appropriate wiring regulations			0.75mm sq			0.75mm sq			
Maximum length				10m			100m total system length			
Function	Termination Output only		Input		Input		Output			
Operating voltage	230VAC+/-15% 50-60Hz Recommended circuit protection: 16A MCB			(ELV)			12-22VDC			
Power consumption	Zero			Negligible			160mW (12mA)		160mW (12mA) per additional device	
Maximum Load current	10A (maximum inrush 80A)			N/A		N/A		N/A		
Permissible load types/connections	Magnetic-ballasted fluorescent, Compact fluorescent, Electronic-ballasted fluorescent, LED (maximum inrush 80A), Tungsten lamps (max 6A)			N/A		N/A		N/A		

## Diagnostics

Detectable wiring faults are always indicated by the LEDs, irrespective of whether they are enabled.

fig 8

LED indication	Meaning
Green in response to movement or not	Movement detected
1 blue flash every 2 seconds	Light level demand – photocell striving for more light in order to reach set-point
2 blue flashes every 2 seconds	A manual switch is being activated
Long red flash every 2 seconds	100hr lamp burn-in is in progress – this means dimming will not be permitted for the duration
2 red flashes every 2 seconds	Channel D0 error – e.g.  1. Too many QuickLink mains-powered devices connected together, or  2. Dimming terminals connected somewhere they shouldn't be
3 red flashes every 2 seconds	Channel D0 error – e.g.  1. Possible short circuit, or  2. Too many luminaires, or  3. Too many GuickLink low voltage sensors, or  4. QuickLink mains-powered sensors connected together with wrong polarity



At the end of their useful life the packaging and product should be disposed of via a suitable recycling centre. Do not dispose of with normal household waste. Do not burn



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# **IMPORTANT NOTES**

- Dimming and QuickLink terminals have only basic isolation from mains and therefore should be wired in mains-rated cable and treated with the same respect as mains with regard to wiring practice
- This equipment is designed to switch lights no more frequently than normal manual operation. However, manufacturers of some particula switching cycles and/or a minimum on-time in order to achieve a predicted lamp life. Please check with the manufacturer of the
- In order to achieve satisfactory light level regulating operation, a sensor must observe a substantially greater proportion of artificial light from the luminaire(s) under its control than from neighbouring luminaires not under its control. This is particularly important when planning the installed layout of linear luminaires that have an integral detector positioned at one end.

**TECHNICAL SUPPORT** +44 (0)1942 719229 Opt 1