

Challenger T5 Occupancy, durable IP65 enclosed non-corrosive linear fluorescent luminaire. Fitted with integral occupancy control, which allows the luminaire to be illuminated only when a presence is detected. Ideal for environments where dust, dirt and moisture prevail, for example kitchens, car parks, staircases, concourses, boiler rooms etc.

Surface Fluorescent Luminaires



Features:

- IP65 (dust tight & water jet proof)
- IK9 (10 joule) shock resistance
- Single or twin T5 high efficiency (HE) or high output (HO) linear fluorescent light sources
- High frequency (HF) control gear ●●
- Integral D-tect occupancy/light sensor (see page 2) ●●●●
- Wall or ceiling mounting
- Durable construction
- Corrosion resistant
- Quick release clip on lens & gear tray
- 20mm through wiring feature
- Stainless steel mounting clips, no drilling of body required (maintaining IP65 integrity)

Options:

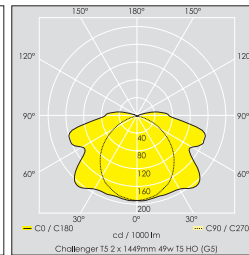
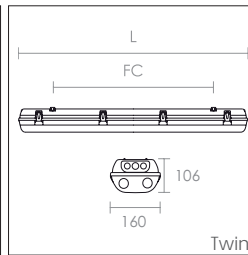
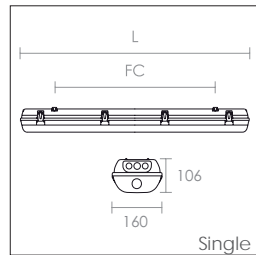
- Integral 3hr. maintained emergency (E3) ●●
- Integral iLite function (see data sheet M3/102) ●●●●
- High Frequency Analogue Dimming (AD) version available ●●●
- Suffix ordering code /AD (e.g. FSCP 5128/AD)
- High Frequency Digital Dimming version available on request ●●●
- Wire suspension kit available on request
- Stainless Steel clips available in packs of 8 or 10

Material:

- Body: polycarbonate
- Lens: polycarbonate

Finish:

- Body: grey
- Lens: prismatic



Challenger T5 Courtesy

Lamp type (Not supplied)	Length (L)	Fixing centre (FC)	High frequency (HF)	Emergency (E3) (integral gear)	Ordering Code
Single Master (with occupancy)					
1 x 1149mm 28w T5 HE (G5)	1270	900	FSCP 128/2M	E3-FSCP 128/2M	E3-FSCP 128/2M
1 x 1449mm 35w T5 HE (G5)	1570	900	FSCP 135/2M	E3-FSCP 135/2M	E3-FSCP 135/2M
1 x 1149mm 54w T5 HO (G5)	1270	900	FSCP 154/2M	E3-FSCP 154/2M	E3-FSCP 154/2M
1 x 1449mm 49w T5 HO (G5)	1570	900	FSCP 149/2M	E3-FSCP 149/2M	E3-FSCP 149/2M
1 x 1449mm 80w T5 HO (G5)	1570	900	FSCP 180/2M	E3-FSCP 180/2M	E3-FSCP 180/2M
Single Slave (without occupancy)					
1 x 1149mm 28w T5 HE (G5)	1270	900	FSCP 128/2	E3-FSCP 128/2	E3-FSCP 128/2
1 x 1449mm 35w T5 HE (G5)	1570	900	FSCP 135/2	E3-FSCP 135/2	E3-FSCP 135/2
1 x 1149mm 54w T5 HO (G5)	1270	900	FSCP 154/2	E3-FSCP 154/2	E3-FSCP 154/2
1 x 1449mm 49w T5 HO (G5)	1570	900	FSCP 149/2	E3-FSCP 149/2	E3-FSCP 149/2
1 x 1449mm 80w T5 HO (G5)	1570	900	FSCP 180/2	E3-FSCP 180/2	E3-FSCP 180/2
Twin Master (with occupancy)					
2 x 1149mm 28w T5 HE (G5)	1270	900	FSCP 228/M	E3-FSCP 228/L1M	E3-FSCP 228/L1M
2 x 1449mm 35w T5 HE (G5)	1570	900	FSCP 235/M	E3-FSCP 235/L1M	E3-FSCP 235/L1M
2 x 1149mm 54w T5 HO (G5)	1270	900	FSCP 254/M	E3-FSCP 254/L1M	E3-FSCP 254/L1M
2 x 1449mm 49w T5 HO (G5)	1570	900	FSCP 249/M	E3-FSCP 249/L1M	E3-FSCP 249/L1M
2 x 1449mm 80w T5 HO (G5)	1570	900	FSCP 280/M	E3-FSCP 280/L1M	E3-FSCP 280/L1M
Twin Slave (without occupancy)					
2 x 1149mm 28w T5 HE (G5)	1270	900	FSCP 228	E3-FSCP 228/L1	E3-FSCP 228/L1
2 x 1449mm 35w T5 HE (G5)	1570	900	FSCP 235	E3-FSCP 235/L1	E3-FSCP 235/L1
2 x 1149mm 54w T5 HO (G5)	1270	900	FSCP 254	E3-FSCP 254/L1	E3-FSCP 254/L1
2 x 1449mm 49w T5 HO (G5)	1570	900	FSCP 249	E3-FSCP 249/L1	E3-FSCP 249/L1
2 x 1449mm 80w T5 HO (G5)	1570	900	FSCP 280	E3-FSCP 280/L1	E3-FSCP 280/L1
Accessories					
Stainless Steel clips (8 pack) 1270mm body					FSCX 8/SS
Stainless Steel clips (10 pack) 1570mm body					FSCX 10/SS



These luminaires are designed to comply with EN 60598-1 (BS 4533:101) Emergency EN 60598.2.22 (BS 4533:102.22)



Energy Saving Controls

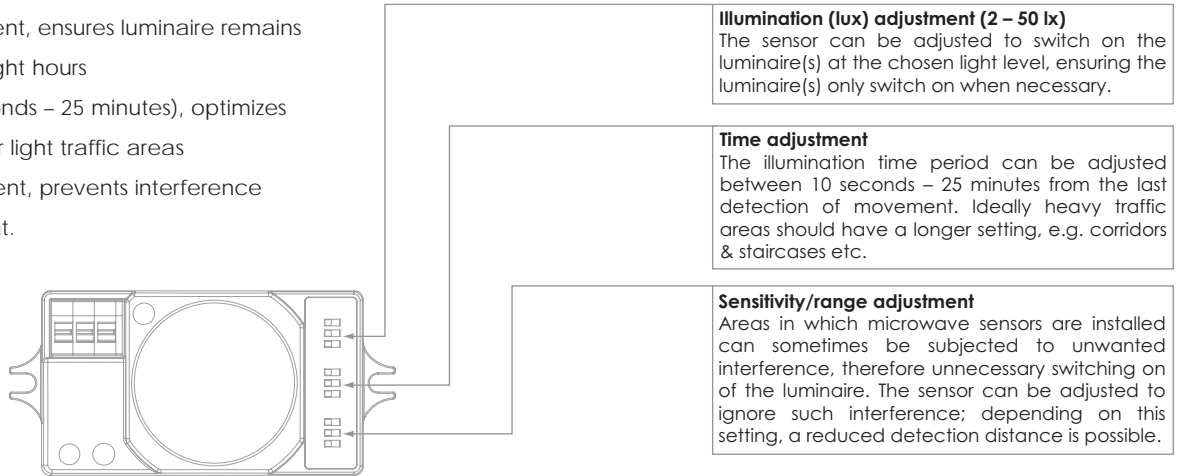
The Ultimate Sustainable Energy Saving Device

The D-tect integral occupancy/light sensor ensures areas are only illuminated when occupied, or daylight diminishes below the required level. D-tect possesses all the features of a PIR occupancy/light sensor, but with additional advanced microwave technologies. D-tect master luminaires are capable of controlling slave luminaires up to a maximum total load of 500VA.

Features:

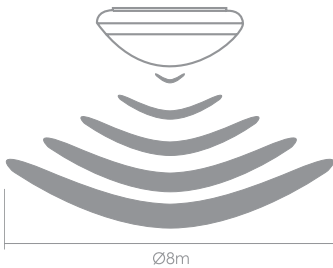
- Unobtrusive, no external indication that the area is being controlled
- Illumination (lux) adjustment, ensures luminaire remains switched off during daylight hours
- Time adjustment (10 seconds – 25 minutes), optimizes energy saving in heavy or light traffic areas
- Sensitivity/range adjustment, prevents interference from unnatural movement.

The adjustment dials are used to adjust the sensitivity/range, illumination (lux) and time.



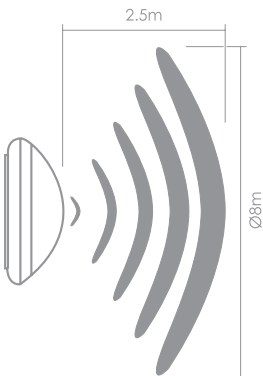
Detection distances

Ceiling Mounting



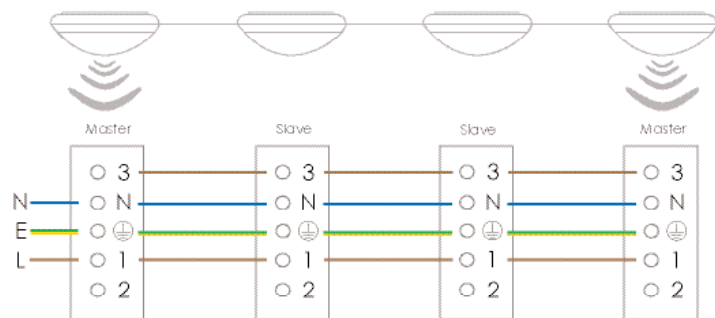
The sensor will cover a floor area of approximately 8m in diameter at an installed height of 2.5m.

Wall mounting



Please note the master luminaire(s) should not be positioned within 1m of ventilation equipment or fixed to a vibrating surface.

Schematic wiring diagram



Voltage 220–240v / 50–60Hz | Capable of controlling slave luminaires (max 500VA)

Potential savings example

Luminaire type	Existing lighting system		Controlled lighting system (D-tect)	
	Typical 1 x 28w low energy luminaire (Switchstart control gear (type B2))	D-tect 1 x 28w Master luminaire (High frequency control gear (type A2))	1 x 28w Slave luminaire (High frequency control gear (type A2))	
Quantity	200	70	130	
Total luminaire power (W)	36	29	29	
Total lighting system power (W)	7200	2030	3770	
Hours of illumination per day	24	5.5	5.5	
Energy consumption (kWh per day)	172.80	11.17	20.74	
Grand total (kWh)	172.80		31.91	
Grand total (kWh per year)	63072		11647.15	
Price per kWh	£0.10		£0.10	
Annual energy cost (£)	£6307.20		£1164.72	
Annual operating cost of existing system (£):			£6307.20	
Annual operating cost of controlled system (D-tect):			£1164.72	
Energy saving (%):			81.5%	
Energy saving (£):			£5142.48	