

## GENERAL INFORMATION

1. A qualified electrician, in accordance with IEE wiring regulations, should carry out connection to mains wiring.
2. Ensure mains power is turned off during maintenance.
3. Ensure that the rated voltage and frequency requirements are compatible with the available mains supply.
4. This unit must be EARTHED.
5. Cleaning of reflectors and lenses should be carried out using clean, soft and lint free cloths and anti-static cleaning fluid.
6. Do not carry out high voltage insulation test, i.e. 500/1000v this may damage internal components.
7. Replacing the light source within this luminaire shall only be carried out by the manufacturer, service agent or a similar qualified person.
8. Batteries used in emergency versions of this luminaire range are replaceable by a qualified electrician.

**PLEASE NOTE: In freezer applications product must be mounted a minimum of 1M from any ventilation including the freezer door.**

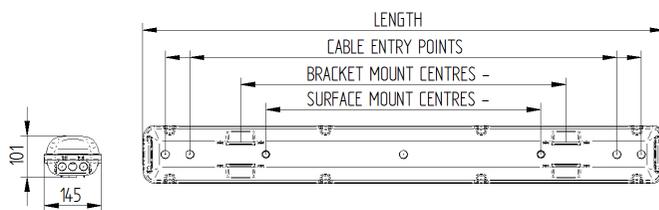
*All measurements in mm unless stated otherwise, see website for product codes and lumen outputs*

## SPECIFICATION

<i>Lamp type:</i>	LED 4000°K
<i>Control Gear:</i>	Fixed Output / DALI
<i>Body Material:</i>	Glass Re-inforced Polyester
<i>Diffuser material:</i>	Opal High Impact PC with internal prisms
<i>Supply:</i>	220-240V AC, 50Hz
<i>Operating temps:</i>	See page 4
<i>Conductor:</i>	2.5mm <sup>2</sup> max
<i>Rating:</i>	IP66 / IK08
<i>Weight:</i>	Std 1.8 kg Em. 2.3 kg
<i>1283mm</i>	Std 2.75 kg Em. 3.25 kg
<i>1578mm</i>	Std 3.4 kg Em. 3.9 kg

## FURTHER INFORMATION

In common with all IP66 rated fittings the ACL Industry luminaire is protected against ingress of dust and water projected from a nozzle. However care must be taken in the siting of these luminaires. They can be mounted outdoors under a canopy or covered environment but should not be in direct sunlight or open areas exposed to adverse weather conditions. In particular they should not be installed in an environment liable to produce standing water on the fitting or IP glands.



Variant	Length	Cable Entry Points	Mount Bracket Centres	Surface Mount Centres
0.6m	663	530	390	266
1.2m	1283	1050/1170	800	676
1.5m	1578	1345/1170	1100	976

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Whitecroft  
lighting

# ACL INDUSTRY / ACL VITALITY Installation Leaflet



PK/LEAFLETAACLED

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## LED INSTALLATION SEQUENCE

HIGH VOLTAGE LEDs



ELECTROSTATIC SENSITIVE DEVICE



1. Remove the luminaire from the packaging, lift the diffuser and set it to one side.
2. Remove the gear tray from the housing by squeezing the plastic clips together at both ends. (Fig.1)
3. Remove the plastic bag containing the ceiling fixing kit, diffuser retention clips, sealing grommets.
4. There are 2 mounting options with the supplied components - surface mounted or suspended (Fig. 2).

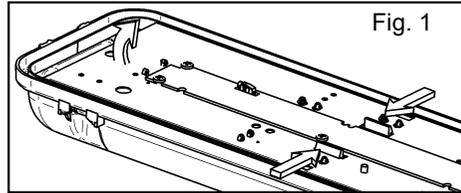


Fig. 1

5. For secure suspension i.e. in an area with a high risk of lateral movement use the ACFHOOKKIT (supplied separately - additional rubber washer required for IP seal not included).

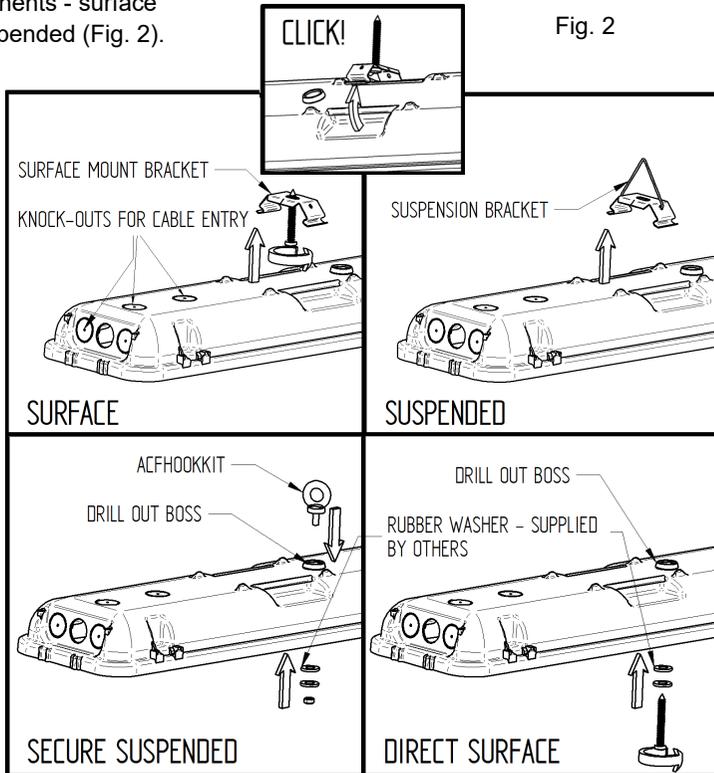


Fig. 2

6. For direct surface mounting use suitable screws and washers (supplied by others) through the same mounting bosses as the hook kit. Ensure that washers are correctly fitted to the inside of the bosses to maintain the IP rating.

## DETECTION AREA

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	10%



I – 100%  
II – 75%  
III – 50%  
IV – 10%

## HOLD TIME

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.

	1	2	3	
I	●	●	●	Test
II	●	●	○	30s
III	●	○	●	1min
IV	●	○	○	5min
V	○	●	●	10min
VI	○	●	○	20min
VII	○	○	○	30min



I – Test  
II – 30s  
III – 1min  
IV – 5min  
V – 10min  
VI – 20min  
VII – 30min

## DAYLIGHT SENSOR - NOT USED DEFAULT SETTING I - DISABLED

	1	2	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2 Lux



I – Disable  
II – 50Lux  
III – 10Lux  
IV – 2Lux

## STAND-BY PERIOD (CORRIDOR FUNCTION)

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

	1	2	3	
I	●	●	●	0s
II	●	●	○	10s
III	●	○	●	1min
IV	●	○	○	5min
V	○	●	●	10min
VI	○	●	○	30min
VII	○	○	●	1h
VIII	○	○	○	+∞



I – 0s  
II – 10s  
III – 1min  
IV – 5min  
V – 10min  
VI – 30min  
VII – 1h  
VIII – +∞

Note: "0s" means on/off control; "+ ∞" means bi-level dimming control, fixture never switches off.

## STAND-BY DIMMING LEVEL

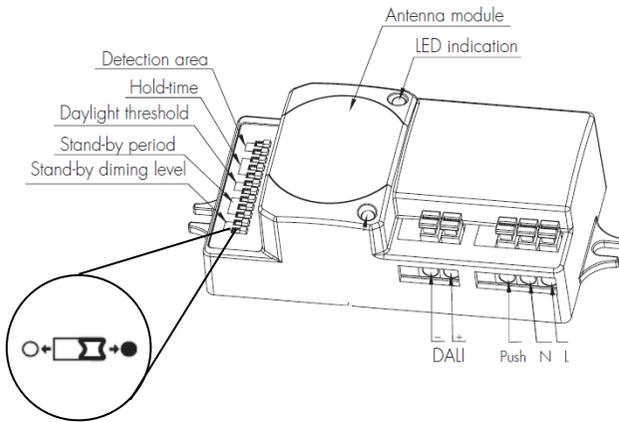
This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

	1	2	
I	●	●	5%
II	●	○	10%
III	○	●	20%
IV	○	○	50%



I – 5%  
II – 10%  
III – 20%  
IV – 50%

## COMMAND 5 SENSOR WITH SETBACK DIP SWITCH CONFIGURATION



Model: HCD418

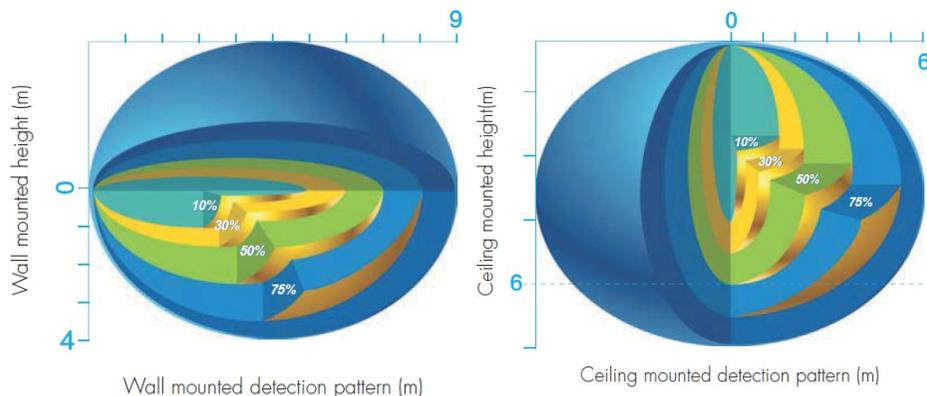
The sensor is a motion switch. It turns the light ON after detection of moving objects and turns the light OFF after a pre-selected hold-time when there is no motion detected.

## INSTALLATION OF LUMINAIRE

### Note: Important to consider

- The sensor provides DALI output to the driver to perform on / off / setback control only. The sensor must not be connected to a DALI network.
- The sensor can detect movements though thin walls and glass; detection range (sensitivity) should be adjusted in accordance with site conditions.
- Luminaire must be fixed to a solid surface to avoid false-triggering caused by vibration.
- Large metal surfaces can cause unwanted detection.
- Ventilation shafts and airflow can cause unwanted detection.
- Luminaires mounted within each other's detection range may need their sensitivity reduced to avoid possible nuisance switching.

## DETECTION AREA PATTERN



7. Bring the incoming supply wires into the luminaire body through the knock-outs at the end of the body or on the rear (Fig.3) using the supplied sealing grommets. Seal any unused cable entry holes with the closed grommets supplied.

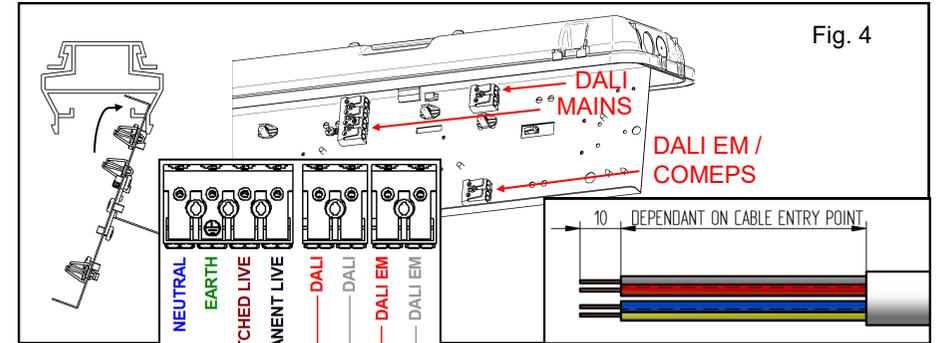


Fig. 4

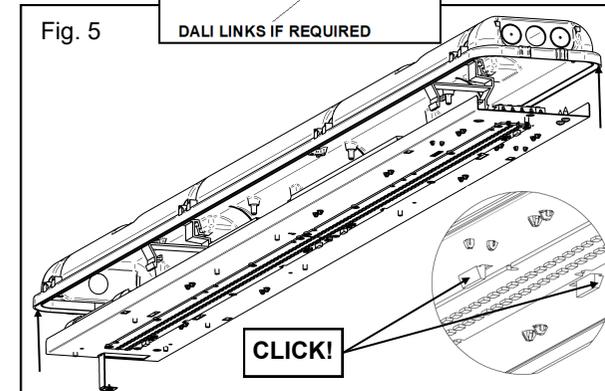


Fig. 5

8. Lift the gear tray back into position and hook onto the plastic retention clips within the housing. (Fig.4)
9. Make all electrical connections to the terminal blocks (Fig.4) and connect the emergency batteries if applicable.

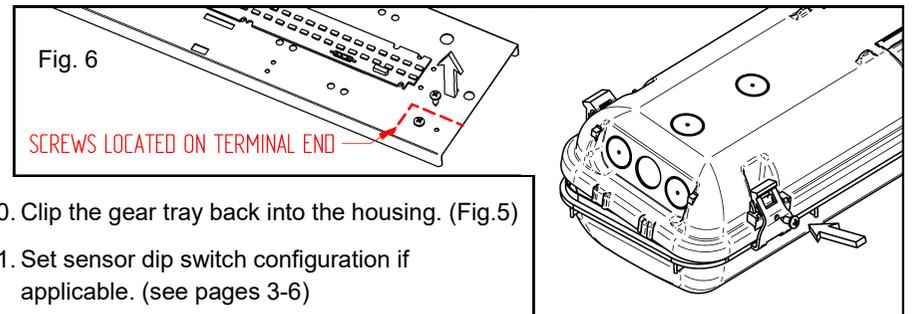
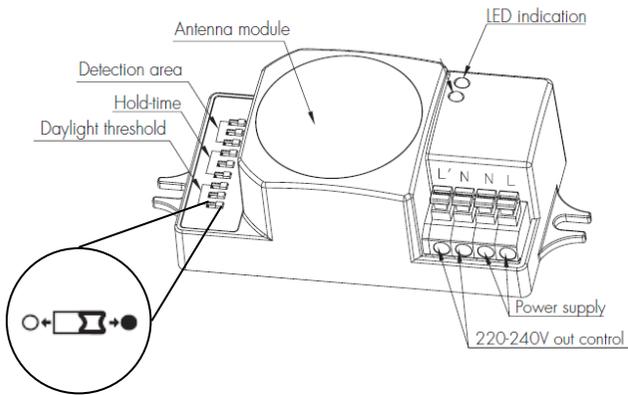


Fig. 6

10. Clip the gear tray back into the housing. (Fig.5)
11. Set sensor dip switch configuration if applicable. (see pages 3-6)
12. Remove the two anti tamper screws from the gear tray for fixing diffuser clips. (Fig. 6)
13. Fit the diffuser back into position using all of the retention clips and secure two plastic clips on opposite sides with the anti-tamper screws provided. (Fig.6)

## COMMAND 5 ECO SENSOR DIP SWITCH CONFIGURATION



Model: HC005s

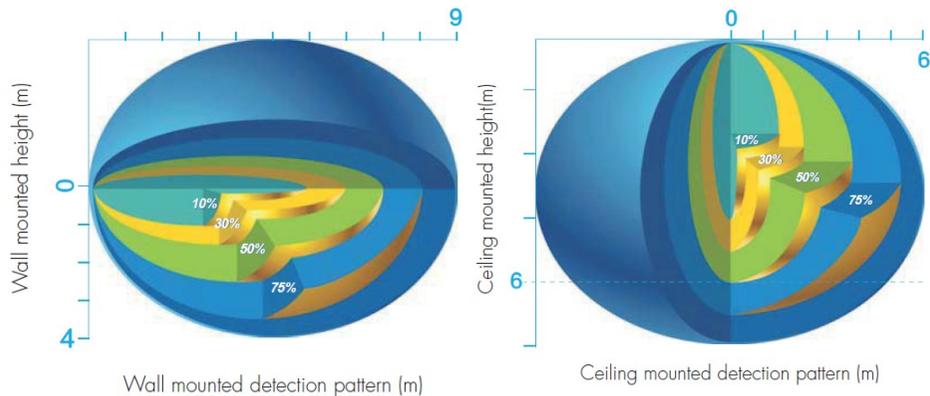
The sensor is a motion sensor. It turns the light ON after detection of moving objects and turns the light OFF after a pre-selected hold-time when there is no motion detected.

## INSTALLATION OF LUMINAIRE

### Note: Important to consider

- The sensor can detect movements through thin walls and glass; detection range (sensitivity) should be adjusted in accordance with site conditions.
- Luminaire must be fixed to a solid surface to avoid false-triggering caused by vibration.
- Large metal surfaces can cause unwanted detection.
- Ventilation shafts and airflow can cause unwanted detection.
- Luminaires mounted within each other's detection range may need their sensitivity reduced to avoid possible nuisance switching.

## DETECTION AREA PATTERN



## DETECTION AREA

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	○	●	○	50%
IV	○	○	●	30%
V	○	○	○	10%



- I – 100%
- II – 75%
- III – 50%
- IV – 30%
- V – 10%

## HOLD TIME

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.

	1	2	3	
I	●	●	●	5s
II	●	○	●	30s
III	●	○	○	1min
IV	○	●	●	5min
V	○	●	○	10min
VI	○	○	●	20min
VII	○	○	○	30min



- I – 5s
- II – 30s
- III – 1min
- IV – 5min
- V – 10min
- VI – 20min
- VII – 30min

## DAYLIGHT SENSOR - NOT USED

## DEFAULT SETTING I - DISABLED

	1	2	3	
I	●	●	●	Disable
II	○	●	●	50Lux
III	○	●	○	20Lux
IV	○	○	●	5Lux
V	○	○	○	2lux



- I – Disable
- II – 50 Lux
- III – 20 Lux
- IV – 5 Lux
- V – 2 Lux

## MAXIMUM OPERATING TEMPERATURES BY VARIANT (ALL IN °C)

Minimum operating temperatures - Standard -20°C / Emergency -5°C

Part Code	Standard	Emergency
AC*04K*	35	35
AC*14K*	40	30
AC*24K*	45	40
AC*34K*	45	40
AC*44K*	45	35
AC*64K*	40	35
AC*74K*	40	35
AC*94K*	25	25