"MILAN"- LED LIGHTING RANGE WITH CORRIDOR FUNCTION

TECHNICAL PARAMETERS:

1) Operating environmental temperature: 0℃ - 50℃.
2) Relative humidity: <90%non-condensing.
3) Rated input voltage:AC240v ±10% frequency: 50hz.
4) Rated input current: 0.104A
5) Power factor: 0.90.
6) Battery standard: 4.8V 900mAH nickel-cadmium battery-high temperature.
7) Emergency duration: 3 hours.

INSTALLATION - Should be carried out by a competent electrician.

The luminaire should be mounted using the fixing holes provided, on a sound flat surface. Route the incoming cables around the outside of the body well away from the control gear, and make-off the conductors in the gear-tray mounted terminal block.

NOTE:

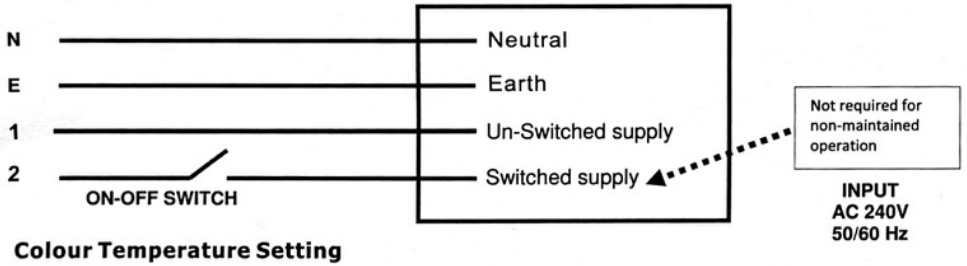
Please refer to the interconnection diagram before connecting to mains supply, ensure that the mains 230V AC supply is connected as shown. A competent electrician should carry this out.
DO NOT CONNECT THE BATTERY THE WRONG WAY ROUND, EVEN MOMENTARILY.
Switch off mains supply before opening the light..
If Non-maintained operation is required, connect a permanent live supply to the L terminal only

OPERATION: ENSURE FITTING IS CHARGED FOR A MINIMUM OF 24 HOURS PRIOR TO TESTING

Connect the switched & unswitched mains supplies as per the diagram.
When the switched supply (L1) is switched on the light will operate in the maintained mode.
When the unswitched live (L) fails the light will operate in the emergency mode.

CONNECTION DIAGRAM

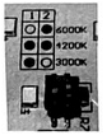
Emergency operation



Colour Temperature Setting

The Milan range comes with 3 colour temperature options:
3000K, 4200K & 6000K

To change the colour temperature, use the DIP switches on the LED Gear tray.



1	2	
OFF	ON	6000K Cool White
ON	ON	4200K Natural White
ON	OFF	3000K Warm White

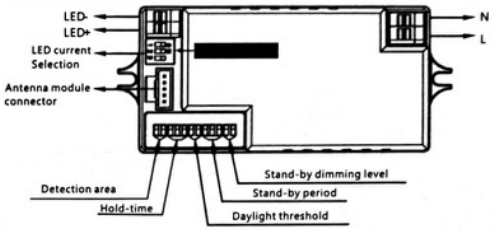
Microwave Sensor

Microwave sensors work by detecting movement, any objects within the field of detection which move, such as trees, animals, cars etc. will trigger the light. If mounted externally rain running down the diffuser may also cause the unit to be triggered.

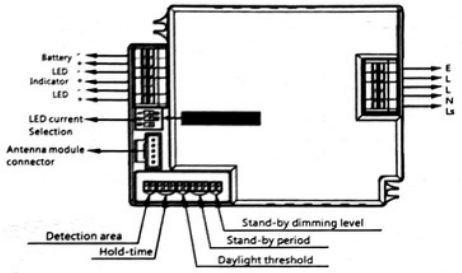
The enhanced 'Corridor function' Offers

1. 3 levels of light: 100%-->dimmed light (10%, 20%, 30%, 50% optional)-->off;
2. 2 periods of selectable waiting time:
3. Motion hold-time and stand-by period;
4. Selectable daylight threshold
5. Detection area.

Layout & switches



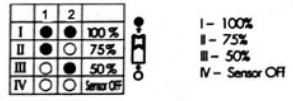
Main body



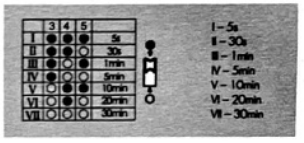
Emergency Main body

FUNCTIONS -ALL CHANGES MUST BE MADE WITH THE LIGHT DE-POWERED

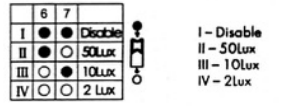
Distance (sensitivity) Setting
The detector has a maximum range of 10M.
Distance detected range can be adjusted to 100%, 75% 50% & 0% of the maximum range. (Approx 6m Radius mounted at 3m height)



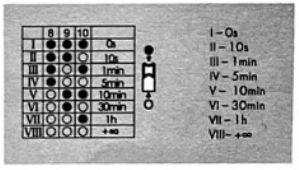
Hold Time Setting
The 'Hold Time' is the period the lamp remains at 100% once movement has stopped being detected. The sensor can be adjusted to 5s, 30s, 60s, 5min, 10min 20min and 30min.



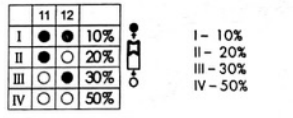
Daylight Setting
Day light value can be adjusted to 2 Lux, 10Lux, 50Lux, and Disabled. If you choose 'Disabled' then the light will operate all the time no matter how bright the ambient light level is.



Stand-By Period (Corridor Function)
This is the time period the light will remain at the dimmed light level. Once the chosen time has elapsed the light will turn off. If the +∞ is chosen the light will remain dimmed until movement is detected.



Stand-by Dimming Level
This is the level the light dims to once movement has ceased & the hold time setting has elapsed

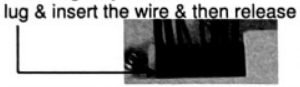


Typical Setting
1 2 3 4 5 6 7 8 9 10 11 12 100% sensitivity, 5 min hold, Daylight sensing off, 5 min stand-by, 20% dimming level
1 1 1 0 0 1 1 1 0 0 1 0

Commissioning (Emergency luminaire)

Follow the procedure below to establish that the luminaire is working correctly.

a) Connect the batteries to the Printed circuit board by inserting the black & red battery wires in to the correct 'push fit' battery terminals on the emergency module.
Simply push down the locking lug & insert the wire & then release the lug.



b) The permanent live supply should be switched on, and the green LED should light, this indicates the batteries are charging.

c) Turn On the normal lighting supply (if a Switched Live supply is present), the lamp should light.

d) Leave the luminaire in this state **for at least one hour before failing all live supplies**. The lamp should light in the emergency mode at reduced brightness.

e) Restore the mains supply and **leave the luminaire to fully charge the batteries, this will normally be 24 hours**. It is nevertheless advisable, to allow an initial charge of 48 hrs before putting the batteries into service for the first time.

The date that this is carried out must be marked in the space provided on the battery label.

Periodic testing (Emergency luminaire) (Consult BS 5266-1:2011 for full details)

The luminaire must be checked periodically for correct operation, and to evaluate the remaining capacity in the battery at regular intervals during its life. The unswitched supply should be failed which will cause the luminaire to operate in the emergency mode.

- The LED charge indicator should be checked on a daily basis.
- Every month the luminaire should be tested in the emergency mode to ensure the lamp is illuminated.
- Annually the luminaire should be tested to ensure it achieves its entire rated duration of emergency operation.
- Record the periodic testing of individual luminaire in the table below, and keep all records in a safe place.
- If the luminaire fails to achieve its rated duration the batteries must be replaced, of an identical type, see the label on the battery for the order reference/type

LUMINAIRE LOCATION				LUMINAIRE TYPE		INSTALLATION DATE	
MONTH	TEST Func/3hr	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE	YEAR 20.. SIGN & DATE
JAN							
FEB							
MAR							
APR							
MAY							
JUN							
JUL							
AUG							
SEP							
OCT							
NOV							
DEC							