SMART PRESENCE DETECTION GUIDE

The Thorlux Smart system uses an infra-red movement sensor built into each luminaire. Infra-red sensing is a commonly used technology for lighting control, but as the mounting height increases, a number of factors are increasingly important.

USE OF THE AREA

As the mounting height increases, so does the amount of movement needed to trigger the sensor. Hand movement may not be sufficient, the person may need to be walking to be detected.

LOW AMBIENT TEMPERATURE

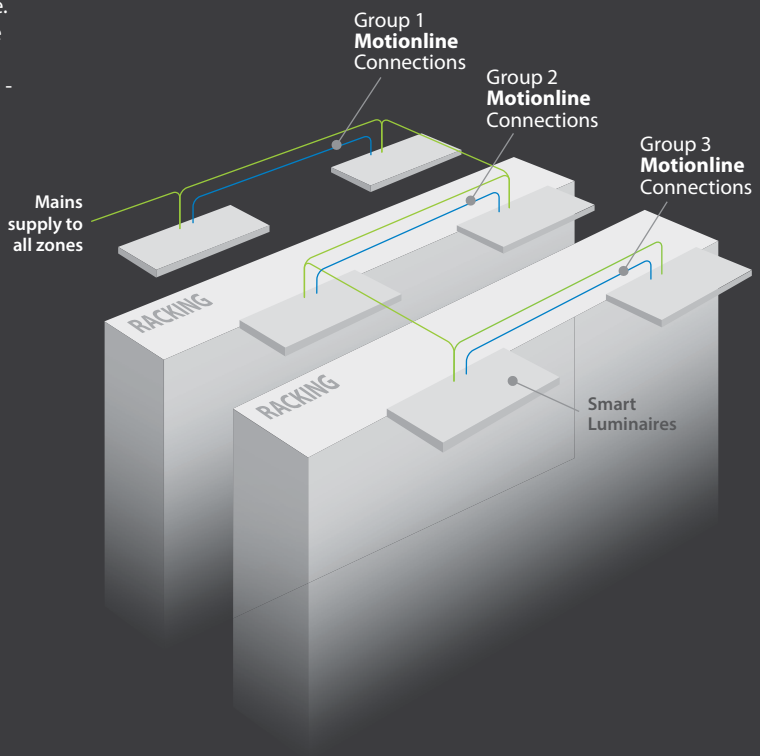
In low temperature applications, personnel often wear thick insulating clothing. This can reduce the thermal image presented to the sensor, thus reducing PIR effectiveness.

HIGH AMBIENT TEMPERATURE

In higher ambient temperature applications (>30°C) the sensitivity may be reduced.

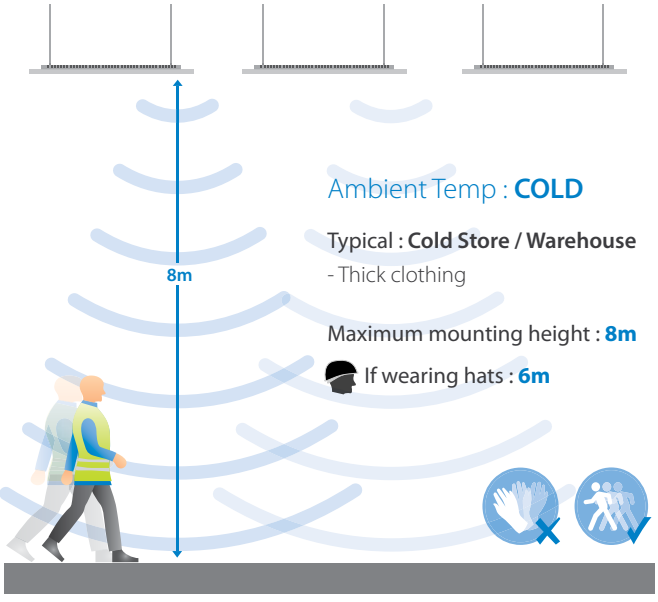
MOTIONLINE

We strongly recommend Smart luminaires should be connected using a "Motionline" two-core low voltage bus. Smart TR luminaires utilise "mesh" wireless technology to replace the wired Motionline. If one luminaire detects movement, a signal is passed to all of the luminaires in the group and they will all illuminate. This ensures effective group control and extends presence detection coverage - particularly helpful in high level applications.



STANDARD SMART SENSOR

MOUNTING HEIGHTS UP TO **10m**

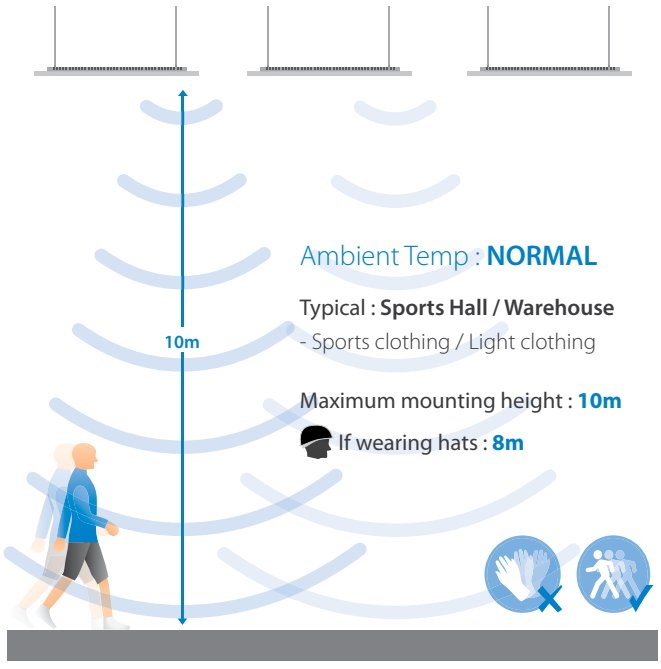


Ambient Temp : **COLD**

Typical : **Cold Store / Warehouse**
- Thick clothing

Maximum mounting height : **8m**

If wearing hats : **6m**



Ambient Temp : **NORMAL**

Typical : **Sports Hall / Warehouse**
- Sports clothing / Light clothing

Maximum mounting height : **10m**

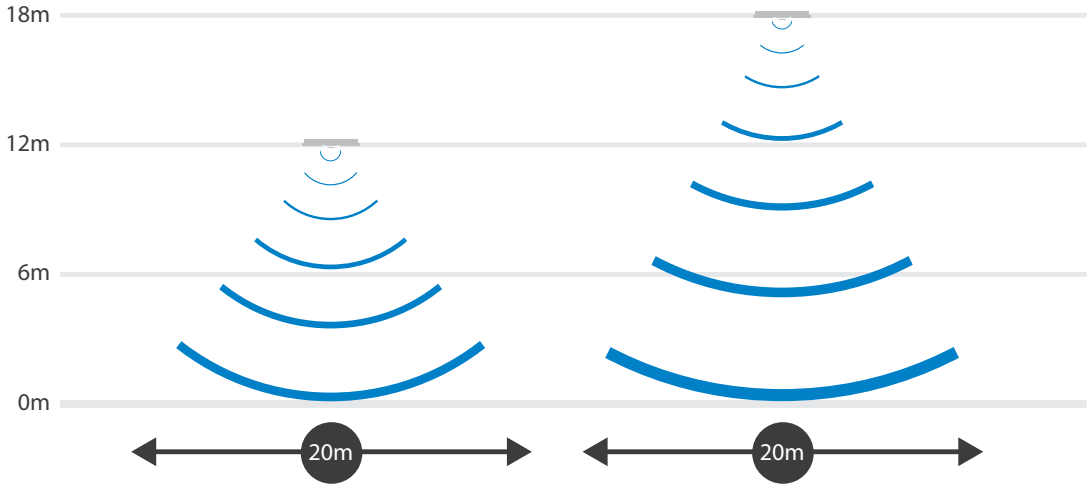
If wearing hats : **8m**

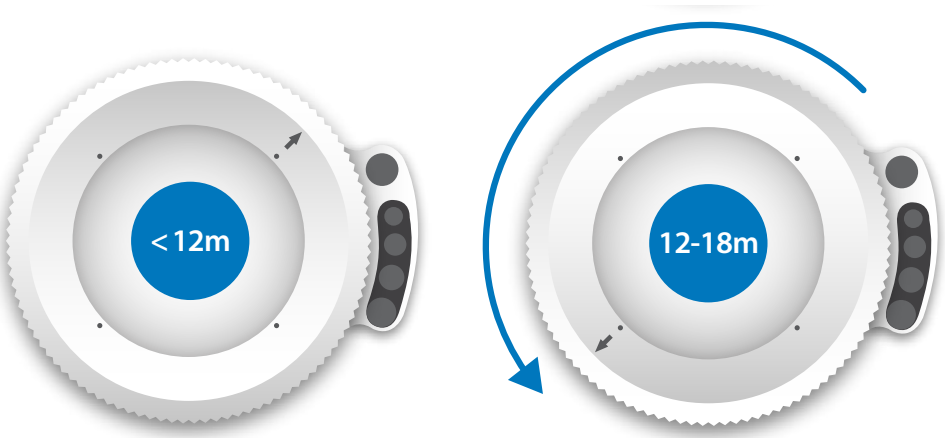
HIGH LEVEL SMART SENSOR

MOUNTING HEIGHTS UP TO **18m**

The new high level Smart Sensor is optimised for mounting heights up to 18m. An adjustable lens allows for the detection area to be tuned to suit the application perfectly. The use of advanced Thorlux Smart technology ensures lamps and LEDs are only powered when required and when on are optimised to provide the correct light level and corresponding power demand. Settings can be configured from ground level using the Smart Programmer.

For more information see **www.thorlux.com/smart**





HIGH LEVEL SMART SENSOR

MOUNTING HEIGHTS UP TO **18m**