



Tiger Eye Light Sensor

Light sensor for Primo Dimmable LED Highbays



Light sensor for Highbay's built-in dimming capability.
Dims output down to just 10% when light not required.
Cuts power consumption down to just 10% (8-12W).

Primo LED highbays are auto-dimmable for even greater energy-efficiency.

Daylight harvesting made simple

Primo LED Highbay dims to just 10% of its output when the sensor detects light from windows, skylights or roller doors.
Power consumption drops to just 8-12W when light is not needed.
When daylight levels drop, highbays automatically brighten to original level. Hold-time is indefinite.

Smooth, gradual dimming for better OH&S profile

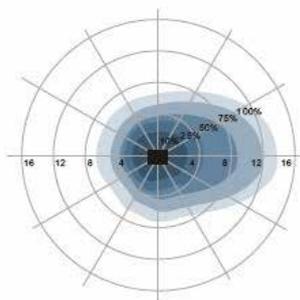
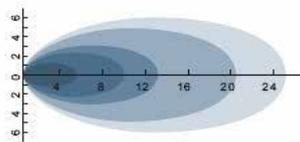
No sudden on-off switching to distract people nearby.
Background light is maintained unless switched off manually. No black spots in lighting grid.

Auto-dimming - individually or in small groups

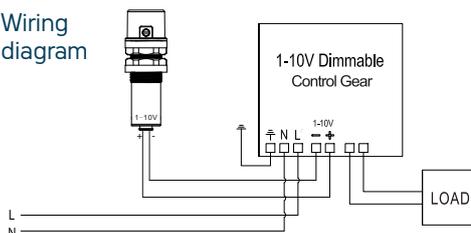
Connect sensor directly to fitting for individual control.
Connect sensor to a 1-10VDC circuit for group control.
Extent of dimming is adjustable via a potentiometer on the sensor unit.
Dimming range is 10% minimum to 100%.

Recommended mounting heights

Top, right: Wall mounted - 4m max
Below, right: Ceiling mounted - 4 - 20m



Wiring diagram



Installation head nut.

Potentiometer for adjusting target light levels.

Light sensor attaches to DC junction box on Primo LED highbay. The length of cable supplied allows for positioning sensor in the optimal position relative to the skylight, window, roller-door, etc.



Applications

Warehousing, distribution, manufacturing, and other premises where daylight harvesting opportunities exist through skylights, windows, roller doors, etc.

Technical parameters

| | |
|------------------------|--------------------------------------|
| Operating voltage | 1-10VDC |
| Max current sink | 50mA maximum rating |
| Dimming range | 10-100% |
| Mounting height (max) | 4m wall mounted. 20m ceiling mounted |
| Cable length | 80cm |
| Colour coding of cable | Red (+), Black (-) |
| Detection angle | 90° |
| IP rating | IP20 |
| Operating Temperature | 0 ~ 45°C |
| Order code | HMDH1 |



Tiger Eye Integrated Occupancy Sensor

Fully integrated into Primo Dimmable LED Highbays

Reduces operating costs where constant high light levels are not required

Standby light levels can be pre-set to suit selected areas

3 stage dimming - full brightness > dim mode > off

Fully integrated microwave sensor - simply plug and play.

Primo LED highbays are auto-dimmable with integrated occupancy sensors for even greater energy-efficiency.

Unnecessary light creates unwanted operating costs. Built-in occupancy sensor dims each individual fitting automatically if no movement has been detected for a predetermined period of time. Auto-dimming of individual fittings enables complete control over each light in each area.

Smooth, gradual dimming for better OH&S

No sudden on-off switching to distract people nearby. Standby light levels can be maintained at low levels (ie 10%, 20%, 30% or 50%) or off completely.

Motion sensor with microwave technology

Sensor is activated by motion and speed to 15m range. Works through plastic, glass and thin non-metal materials. Operates regardless of background temperature, or dust, smoke or steam in the atmosphere. IP65 rated.

Programmable via infrared remote control

A range of customisable settings can be programmed to enable users to balance their lighting requirements in each area, with their goal of maximising energy saving.

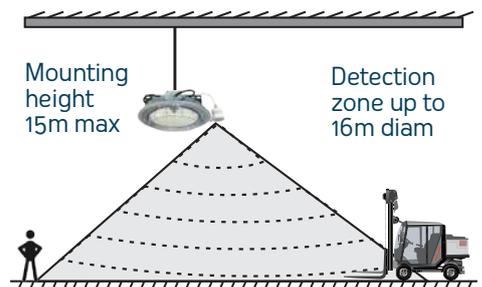
3 stage dimming

The sensor module is adjustable to suit specific business needs:



Applications

Warehousing, distribution, manufacturing, packing halls, store rooms, passageways, workshops and other work spaces which may remain unoccupied from time to time.



FULL BRIGHTNESS

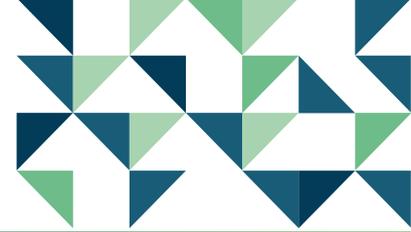
Brightens automatically when motion detected, until end of pre-set hold-time (5 sec - 30 min)

STAND-BY / DIM MODE

Operates at pre-set light level via dimmable driver (10 /20 /30 /50% output) until motion is detected again.

SWITCH OFF

Sensor can be set to turn fitting off when no motion is detected after a pre-set stand-by period (5sec - 30min). This feature can be disabled.



Tiger Eye Integrated Occupancy Sensor

Fully integrated into Primo 12k, 17K & 21K Dimmable LED Highbays

PRE-ASSEMBLED - PLUG & PLAY

The micromave occupancy sensor is fully integrated into all Primo dimmable LED highbays for simple Plug & Play operation



primo



Primo 12K
12000 lm ▪ 80W
150 lm/W
Dimmable

Primo 17K
17000 lm ▪ 115W
150 lm/W
Dimmable

Primo 21K
21000 lm ▪ 125W
170 lm/W
Dimmable

FULL BRIGHTNESS

Brightens automatically when motion detected, until end of pre-set hold-time (5 sec - 30 min)

STAND-BY / DIM MODE

Operates at pre-set light level via dimmable driver (10 /20 /30 /50% output) until motion is detected again.

SWITCH OFF

Sensor can be set to turn fitting off when no motion is detected after a pre-set stand-by period (5sec - 30min). This feature can be disabled.

EXAMPLE 1: Passageway linking workshop to manufacturing area. Used by forklifts and pedestrians. Primo 17K highbays set at 10% dim level. When motion detected, lights go to full-brightness. 1 minute hold time at 100% output. Then back to 10%. Infinite stand-by period (not switched off). **Consumption reduces from 115W to 12W for most of day.**

EXAMPLE 2: Manufacturer's bulky goods storage room. Visited for 10min, 3-4 times daily. Primo 12K Lowbays set at 10% dim level. 20min hold time. Infinite stand-by (not switched off). **80W consumption reduced to 8W for majority of day.**

EXAMPLE 3: Logistics firm's pick and pack racking area. Individual aisles visited briefly 10 times daily. Primo 21K highbays set at 20% dim level, 3min hold time. Infinite stand-by (not switched off). **125W reduced to 25W for most of day.**

Programmable Settings

| | |
|---------------------------|--|
| Hold Time | Duration light stays at 100% output after last detection of occupancy. |
| Stand-by period | Duration light stays in dim mode without movement before switching off completely. |
| Stand-by dim level | Percentage of light's output while in dim mode. |
| Daylight sensor | The light can be programmed to stay off in the presence of natural light. |

Individual programs available on hand-held remote

| Hold Time | Stand-by period | Stand-by dim level | Daylight sensor |
|-----------|-----------------|--------------------|-----------------|
| 5sec | 0sec | 10% | 5 lux |
| 30sec | 1min | 20% | 15 lux |
| 1min | 3min | 30% | 30 lux |
| 3min | 10min | 50% | 50 lux |
| 20min | 30min | | 100 lux |
| 30min | Infinite | | 150 lux |
| | | | Disable |



Technical parameters

| | |
|------------------------|--|
| Operating voltage | 120-277Vac, 50Hz |
| Rated load | 800W (inductive), 1200W (resistive) |
| HF system | 5.8GHz±75MHz, ISM wave band |
| Power consumption | ≤0.5W(standby), <1W(operation) |
| Transmitting power | <0.5mW |
| Detection zone max | 16m D x 15m H |
| Motion detection | 0.5-3m/s |
| Detection angle | 150° (wall install), 360° (ceiling install) |
| IP rating | IP65 |
| Operating temperature | -25 to +55°C |
| Hold time | 5s / 30s / 1min / 3min / 20min / 30min |
| Detection sensitivity | 50% / 100% |
| Daylight sensor | 50 lux / 100 lux / 200 lux / Disable |
| Stand-by period | 0s / 1min / 3min / 10min / 30min / Disable |
| Stand-by dimming level | 10% / 20% / 30% / 50% |
| Service life | 50,000 hours |
| Order code | HMMSF (integrated sensor in highbay) HMREMOTE (infrared programming remote control) |