
Occupancy Sensors



EPV

Energy Saving Lighting Controls

Product Overview

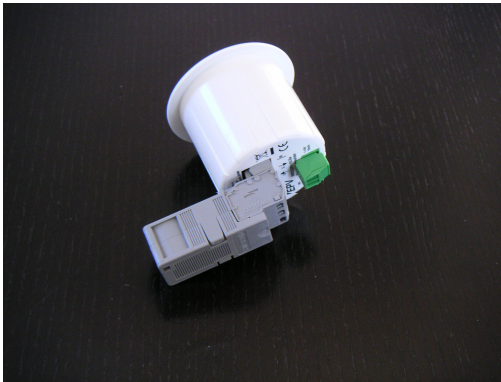
230V Occupancy Sensors: Applications

230V types are good for standalone applications where one sensor covers the full area, e.g.

- Small offices
- Bathrooms
- Classrooms

Simple & quick installation

- Built-in relay, Max. 300W or 80A inrush current (can be increased by external power relay)
- L and N are connected to sensor, switched Live goes to lamps
- Sensors have WAGO sockets and WAGO plugs including strain relief for the wiring (plugs supplied with each sensor)
- Each sensor comes with a mounting clip



Sensor with WAGO plug with strain relief (grey). Pictured is a combined Occupancy & Daylight Harvesting Sensor



Sensor with standard mounting clip

230V Occupancy Sensor Kits (1/2)

Occupancy Sensing

BM3/230V/5

- Simple On/Off, based on Occupancy only, fixed delay time 10 minutes, no twilight switch, incl. plug set with strain relief, max 5m height

BM3/230V/5L (*suitable for most applications!*)

- On/Off with, adjustable delay time 10 seconds -14 minutes, adjustable twilight switch 100-1.000 lux, incl. plug set with strain relief, max 5m height

BM3/230V/10

- Simple On/Off, based on Occupancy only, fixed delay time 10 minutes, no twilight switch, incl. plug set with strain relief, max 10m height

BM3/230V/10L

- On/Off with, adjustable delay time 10 seconds – 14 minutes, adjustable twilight switch 100-1.000 lux, incl. plug set with strain relief, max 10m height



230V Occupancy Sensor Kits (2/2)

Occupancy Sensing + Daylight Harvesting

BM3/230V/5LSa

- On/Off and Daylight Harvesting (1..10V dimming signal output), adjustable delay time 10s-14min, adjustable dimming set point 100-1.000 lux, incl. plugs with strain relief, max 5m height
- Off-Priority: Light level.

Explanation: When sufficient ambient light is available, the artificial light will remain in maximum dimming position for the set delay time. **After that, the artificial light is turned off, regardless of motion in the room.**



BM3/230V/5LSb

- On/Off and Daylight Harvesting (1..10V dimming signal output), adjustable delay time 10s-14min, adjustable dimming set point 100-1.000 lux, incl. plugs with strain relief, max 5m height
- Off-Priority: Motion

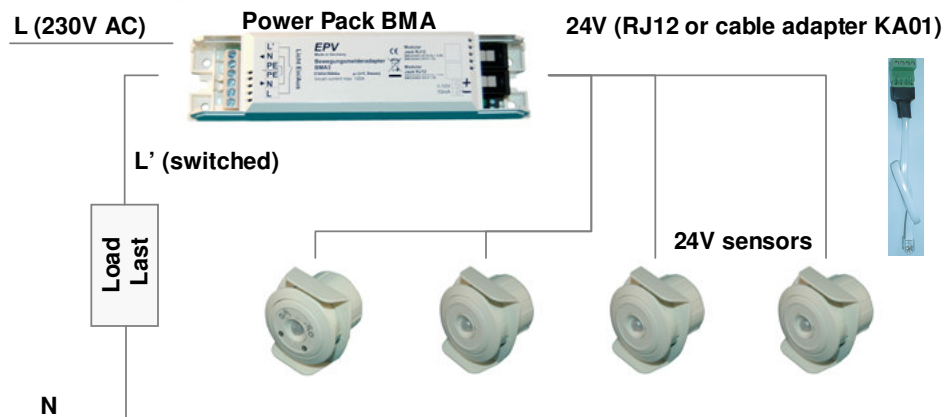
Explanation: When sufficient ambient light is available, the artificial light will remain in maximum dimming position as long as there is any motion in the room. **The lights will turn off only when the room is vacant.**



24V Occupancy Sensors: Applications

1.) For combining more than 1 Occupancy Sensor in parallel (with Power Pack)

- When you require larger sensor zones, for example for open plan offices or long corridors
- Simple installation of sensors with RJ12 data cable
- 230V connected only to Power Pack



2.) For use in Building Management Systems (no Power Pack required)

- All 24V sensors have Open Collector outputs (high / low signal levels) that can be used to interface with existing systems (more information available!)

24V Occupancy Sensors + Power Pack (1/2)

Occupancy Sensing

BM3/24V/5

- Simple On/Off, based on Occupancy only, fixed delay time 10 minutes, no twilight switch, incl. plug set with strain relief, max 5m height

BM3/24V/5L

- On/Off with, adjustable delay time 10s-14min, adjustable twilight switch 100-1.000 lux, incl. plug set with strain relief, max 5m height
- 1 of these can be combined with up to 3 simple BM3/34V/5 sensors

BM3/24V/10

- Simple On/Off, based on Occupancy only, fixed delay time 10 minutes, no twilight switch, incl. plug set with strain relief, max 5m height

BM3/24V/10L

- On/Off with, adjustable delay time 10s-14min, adjustable twilight switch 100-1.000 lux, incl. plug set with strain relief, max 10m height
- 1 of these can be combined with up to 3 simple BM3/34V/10 sensors



Power Pack for Occupancy Sensing

Power Pack BMA2 NL

- **Up to 4 Occupancy Sensors of 24V** type can be connected to one of these units. Sensors will work in parallel to give you large coverage area.
- Switching capacity: 16A relay, max 120A inrush
- Connection of sensors with simple RJ 12 wiring
- Incl. strain relief for wiring & terminal cover



24V Occupancy Sensors + Power Pack (2/2)

Occupancy Sensing + Daylight Harvesting

BM3/24V/5LSa*

- On/Off and Daylight Harvesting (1..10V dimming signal output), adjustable delay time 10s-14min, adjustable dimming set point 100-1.000 lux, incl. plugs with strain relief, max 5m height, Off-priority: Light level
- 1 of these can be combined with 3 simple BM3/34V/5 sensors

BM3/24V/5LSb*

- On/Off and Daylight Harvesting (1..10V dimming signal output), adjustable delay time 10s-14min, adjustable dimming set point 100-1.000 lux, incl. plugs with strain relief, max 5m height, Off-priority: Motion
- 1 of these can be combined with 3 simple BM3/34V/5 sensors



* For explanation of differences between /5LSa and /5LSb please see 230V types on page 4

Power Pack for Occupancy Sensing & Daylight Harvesting

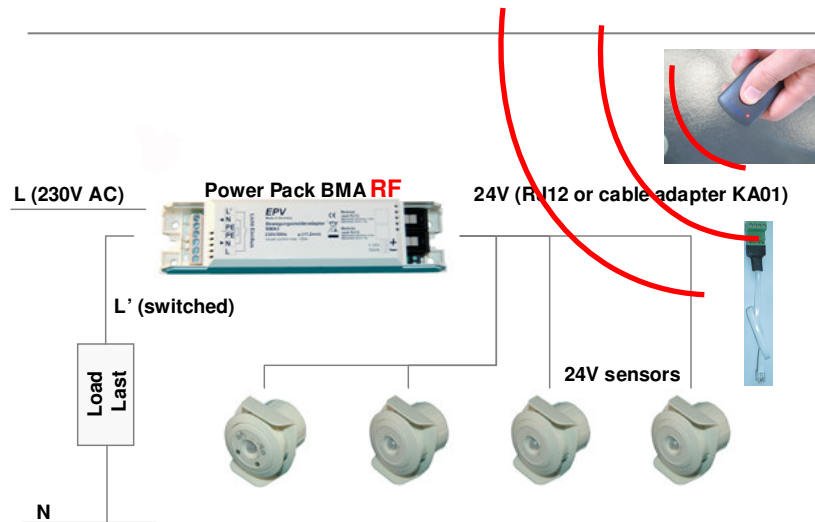
Power Pack BMA3

- Up to 4 Occupancy Sensors of 24V type can be connected to one of these units. One of them can be of the Daylight Harvesting type (above)
- Sensors will work in parallel to give you large coverage area.
- Switching capacity: 16A relay, max 120A inrush
- Connection of sensors with simple RJ 12 wiring
- Incl. strain relief for wiring & terminal cover



Also available with RF remote control for manual dimming / conference room applications, details on request.

Optional: Remote Controlled Dimming



RF Remote Control (1 channel)*

+

Power Pack BMA3 RF
(with built-in RF receiver)

Set

* 4 channel Remote Control also available

Functionality

A. With Occupancy / Daylight Harvesting Sensor (e.g. BM3/24V/5LSa) connected: Toggle between manual and automatic dimming

- Lights can be dimmed up and down manually by holding down the button on the remote control. This disables/overwrites the automatic Daylight Harvesting.
- A short press on the button puts the system back into fully automatic Occupancy Sensing and Daylight Harvesting mode.

B. No Occupancy Sensor connected = Standalone remote controlled manual dimmer

- Lights can be dimmed up and down manually by holding down the button on the remote control.
- A short press on the button turns the lights on and off.

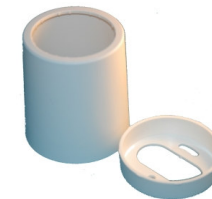
Applications:

- Excellent for conference rooms, offices

Optional Accessories for Occupancy Sensors

Optional Accessories

- Spring fitting, e.g. for plasterboard ceilings
New solution (better looking + cheaper) available soon
- Surface mounting housing, e.g. for concrete ceilings
- 2-in-1 extension for RJ12-wiring (24V types)
- Additional Contactor Relay (30A cont. / 250A inrush current)
for switching very large loads with an Occupancy Sensor



Recommended shipping partners

Samples & Small Orders

- TNT Economy (worldwide) or DPD (within Europe)

Medium orders

- SCHENKER AIR Freight, CIF to next airport
- SCHENKER / UPS Cooperation, DDU door to door

Large Orders

- SCHENKER SEA Freight, CIF your next port, door to door on request

We are happy to work out a detailed quote for you and are looking forward to doing business with you.