

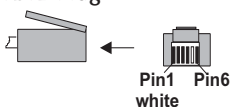
## ecos

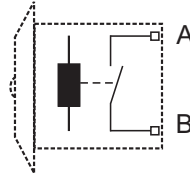
### Occupancy Sensors 24V MASTER

PM/24V/5, PM/24V/12  
PM/24V/5T, PM/24V/12T  
PM/24V/5L, PM/24V/12L







EN

## ■ Technical Data

Power Supply	Switching Capacity	Ambient Temperature	IP	Connection Pin Assignment
10.8-28V DC or AC, 10mA at 24V (0.24W)	Motion signal: potential free relay (normally open - NO) 24V/1A, up to 48V/0.5A	0 – 50°C (Indoor)	41	RJ12 Plug  Pin 1: Power Supply Pin 2: 0V Pin 3: SLAVE Pin 4: Motion A Pin 5: Vacant Pin 6: Motion B



## ■ Types & Functions

	PM/24V/5 MASTER No. 102043	PM/24V/12 MASTER No. 102046	PM/24V/5T MASTER No. 102044	PM/24V/12T MASTER No. 102047	PM/24V/5L MASTER No. 102045	PM/24V/12L MASTER No. 102048
Product						
Maximum Mounting Height	5m	12m	5m	12m	5m	12m
Delay Time	10 minutes			10 seconds - 14 minutes adjustable		
Twilight Setting	No light sensor. Motion sensing always active regardless of ambient light.				100-1000 Lux adjustable	

## ■ Settings (product-dependent)



### Setting the correct delay time

When switching fluorescent lamps, please set the delay time to approx. 10 minutes or more (recommendation by lamp manufacturers).




### Setting the correct twilight set point

Do not mount the sensor in the direct light of the switched lamps.

- + Shifts the twilight threshold to the „bright“ direction, i.e. with increasing daylight the artificial light is switched off later.
- Shifts the twilight threshold to the „dark“ direction, i.e. with increasing daylight the artificial light is switched off earlier.

The artificial light should switch off when the total level of daylight and artificial light clearly exceeds the artificial light. Procedure:

Darken the room. Switch on the artificial light and set the delay time at the occupancy sensor to minimum. Turn the setting knob „twilight setting“  from „+“ to „-“ until the light turns off. Turn back slowly to „+“ direction until the light switches on again.

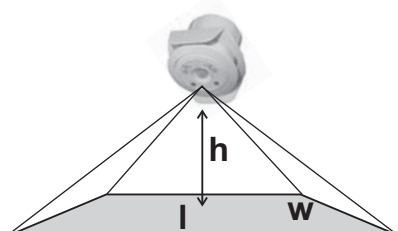
This is the optimum setting and ensures that the artificial lighting value is reached but the sensor does not turn off due to the artificial light alone.

Finish the adjustment by increasing the delay time to the desired length.



## Observation Area

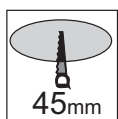
- The sensor covers a rectangular area on the floor.
- A rectangular symbol on the front of the sensor indicates the orientation of the area.
- The size of this observation area can be reduced by pulling out the shading ring around the sensor lens (not applicable for 12m types).
- The observation area can be extended by SLAVE sensors (see also Connection Accessories).



5m types		
height (m)	width (m)	length (m)
2.0	4.53	5.65
2.2	4.98	6.21
2.3	5.21	6.50
2.5	5.66	7.06
2.8	6.34	7.91
2.9	6.57	8.19
3.0	6.79	8.47
3.1	7.02	8.75
3.2 - 5.0	7.24	9.04

12m types		
height (m)	width (m)	length (m)
4.0	8.28	9.88
4.5	9.32	11.12
5.0	10.36	12.34
5.5	11.40	13.58
6.0	12.42	14.80
6.5	13.46	16.06
7.0	14.50	17.28
7.5	15.52	18.52
8 - 12m	12	12

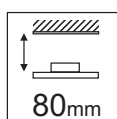
## Installation Options & Accessories



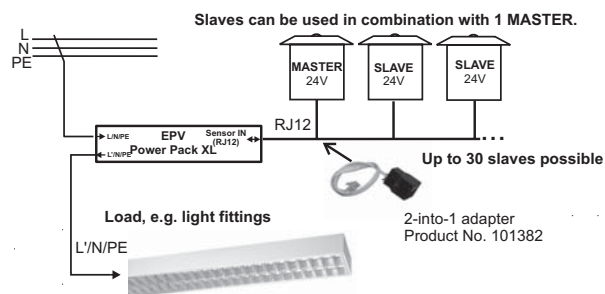
Ceiling cutout



Front diameter



Installation depth



Disconnect mains voltage to the power pack before plugging in or removing the 24V sensors.



Max. cable length in connection with these ecos MASTER sensors: 200m (RJ12 cable with core cross section of at least AWG26 / 0,12mm<sup>2</sup>). For larger distances use shielded cable.

Mounting Options						
	Supplied with each sensor		Product-No. 101683		Product-No. 101472	
Connection Accessories	Flush mounting with standard clip Standard installation in suspended partitioned ceilings where the standard clip can be placed onto the sensor from behind (e.g. ceiling tiles). 45mm ceiling cutout.		Flush mounting with spring clip Applicable when the standard clip can not be placed onto the rear of the sensor, e.g. plasterboard or wooden ceilings. 60mm cutout.		Surface mounting enclosure Applicable for retrofits on concrete ceilings. Accessories for concrete canister mounting also available on request.	
	Product-No. 101947	Product-No. 101382	Product-No. 102144		Slave Sensors	Product-No. 101871
	Cable adapter KA2 Gateway from RJ12 cable to screw terminal.	2-into-1 RJ12 adapter Use for plugging several 24V sensors together.	Power Pack DIM XL Power supply and relay switching unit for ecos PM/24V occupancy sensors.		To extend the observation area. PM/24V/5 SLAVE (Product-No. 101798) PM/24V/12 SLAVE (Product-No. 102127)	RJ12-cable 6m