EPV
Energy Efficiency
Made in Germany

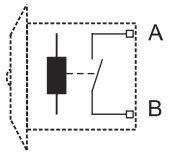
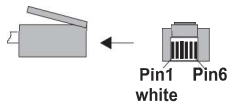
ecos

Occupancy Sensors 24V
MASTER
PM/24V/5LSa DIM
PM/24V/5LSb DIM

EN

Occupancy and daylight dimming sensor

Technical Data

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

Types & Functions

	PM/24V/5LSa MASTER No. 102049	PM/24V/5LSb MASTER No. 102050
		
Maximum Mounting Height	5m	
Delay Time	10 seconds - 14 minutes	
Dimming Set-point Above this light level the dimming begins.	100-1000 Lux adjustable. Lights turn off after they have been in max dimming position for the delay time.	100-1000 Lux adjustable Lights stay on in max. dimming position as long as there is motion detected.

Settings

Setting the delay time

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

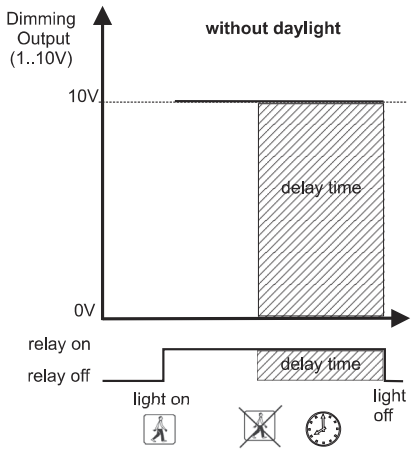
Setting the dimming set point

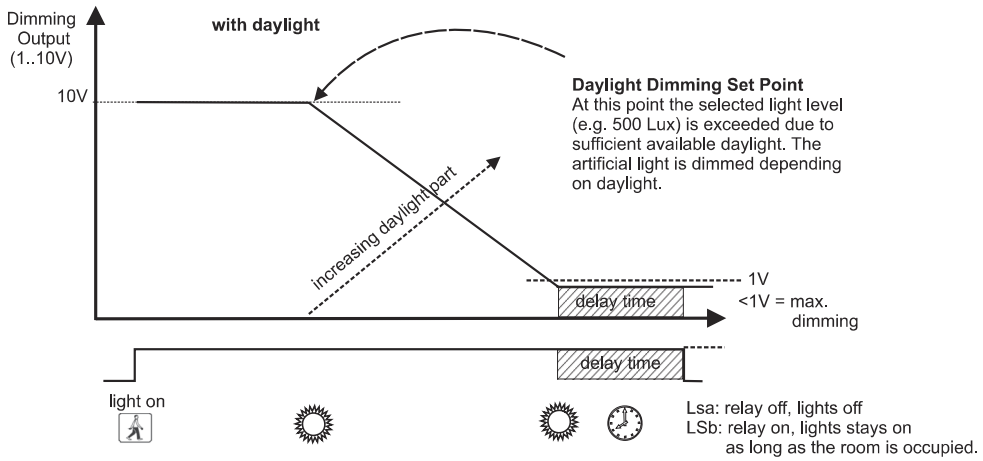
+ Shifts the dimming set point to the „bright" direction, i.e. with increasing daylight the artificial light is dimming later.
- Shifts the dimming set point to the „dark" direction, i.e. with increasing daylight the artificial light is dimming earlier.

Procedure for setting the optimum dimming set point:

- Switch on the artificial light.
- Darken the room.
- Turn the potentiometer knob „twilight setting" from „+" to „-" until the light begins to dim.
- Turn back slowly to „+" direction until the lights reach max. brightness again (if unsure measure the 1-10V voltage level at the control gear). It should be 10V now.
- This setting ensures that the sensor does not dim when only artificial light is present.

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





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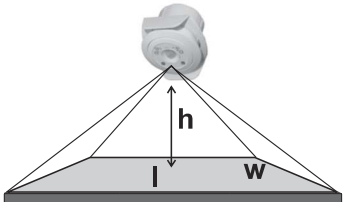
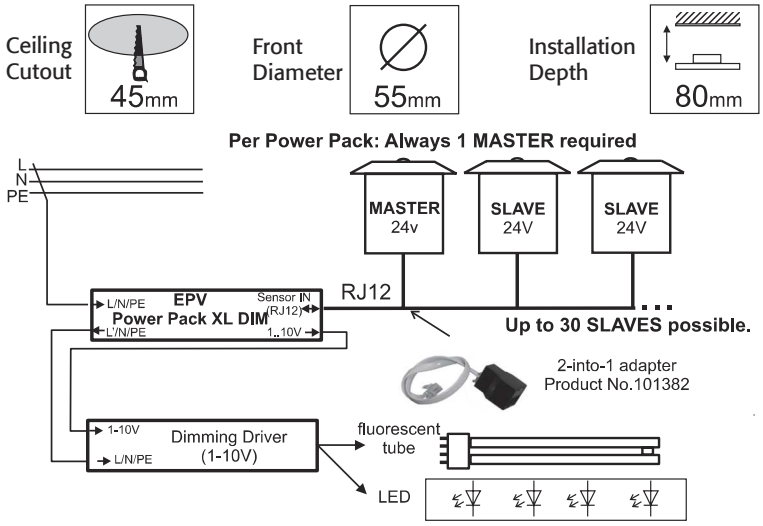
Observation Area

- The sensor covers a rectangular area.
- 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 lence.
- The observation area can be extended by SLAVE sensors (see also Connection Accessories).



5m types		
height (m)	width (m)	length (m)
1.9	4,3	5,37
2	4,53	5,65
2,1	4,75	5,93
2,2	4,98	6,21
2,3	5,21	6,5
2,4	5,43	6,78
2,5	5,66	7,06
2,6	5,89	7,34
2,7	6,11	7,62
2,8	6,34	7,91
2,9	6,57	8,19
3	6,79	8,47
3,1	7,02	8,75
3,2 - 5,0	7,24	9,04

Installation Options & Accessories



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

Max. cable length in connection with these ecos MASTER sensors: 100m. Use RJ12 cable with core cross section of at least AWG26 / 0,12mm². For larger distances use shielded cable.

Mounting Options

Supplied with each sensor

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.

Product-No. 101683

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.

Product-No. 101472

Surface mounting enclosure
Applicable for retrofits on concrete ceilings.
Accessories for concrete canister mounting also available on request.

Connection Accessories

Product-No. 101947

Cable adapter KA2
Gateway from RJ12 cable to screw terminal.

Product-No. 101382

2-into-1 RJ12 adapter
Use for plugging several 24V sensors together.

Product-No. 101776

Power Pack DIM XL
Power Supply and relay switching unit with 1-10V output for EPV ecos sensors.
Also available as Power Pack DALI.

Product-No. 101798

PM/24V/5 SLAVE
Sensor to extend the observation area.

Product-No. 101871

RJ12-cable 6m

102096 10. April 2017

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