

Product data sheet



Observer 220



Reference number

W 220 WW

Observer 220° with digital signal evaluation

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Surface-mounting in indoor and outdoor areas

Product characteristics

- Digital signal evaluation
- Moisture-proof
- Shut-off delay, sensitivity and brightness value adjustable
- Test operation for checking the detection area
- Switch light ON or OFF for 4 hours
- Short-time operation to control signal encoders
- Sensor head adjustable in 2 axes
- Self-adhesive cover plate elements for limiting the detection area
- High protection against ambient light
- 580 switching segments in 4 layers
- Separate protection against crawling under
- Parallel connection of multiple motion detectors possible
- Manual switch ON possible with push-button, break contact

Important: Energy saving lamps cause high inrush currents which may cause the switch contact to get stuck. Then a reduction of capacity is required! Please check suitability of lamps before installation.

Delay time limitation: Once the detector has switched on, the brightness is no longer evaluated. To prevent the light from remaining permanently on (e.g. beyond dawn) caused by permanent movements, the device is provided with an intelligent limiting function.

The delay time (time the light remains on after detection of the last movement) is selected depending on the real switch-on time:

Switch-on time Delay time (approx)

up to 60 min depending on setting

up to 70 min 4 min

up to 75 min 2 min

up to 80 min 1 min

up to 85 min 30 sec

up to 90 min 15 sec

90 min switching-off

The detector switches off after 90 minutes, at the latest, even if there are still movements in the detection field. Restarting will only be effected if the ambient brightness drops below the preset brightness level and if a movement is detected in the detection field.

Not suitable for alarm systems

mounting height: 2.40 m

Technical data

Nominal range:

approx. 16 m

Mounting height:

approx. 2.40 m

Detection range:

approx. 220°, with separate undercrawling protection

Rated voltage:	AC 230 V ~, 50/60 Hz
Switch contact:	relay, mains potential
Switch-on current:	max. 20 A
Circuit breaker:	16 A
Power consumption:	approx. 1.1 W
Temperature range:	-20 ... +55 °C
Shut-off delay:	2 s ... 30 min, continuously adjustable short-time pulse 0.5 s
Brightness sensor:	Daytime and night-time operation approx. 1 ... 1000 lx, continuously adjustable
Sensitivity:	approx. 20 ... 100 %, continuously adjustable
Protection level:	IP 55
Terminals:	L, N, μ (relay) wiring up to 2.5 mm ²
Switching capacity	
Incandescent lamps:	2300 W
HV halogen lamps:	2300 W
LV halogen lamps with	
TRONIC transformers:	1200 W
inductive transformers:	1200 W
Operate inductive transformers with at least 85 % nominal load.	
Fluorescent lamps	
non-compensated:	1200 W
parallel compensated:	920 W
lead-lag circuit:	2300 W
Colour:	
white	