



The Ratio®-Solar-Occupancy detector PM101 is a battery- and maintenancefree radio sender and is suitable to wall and ceiling suspension and does not need any external supply voltage. The power generation is effected by transmission of roomlight into electrical energy by a solargenerator. It conduces to dedect motion depending on light and the transmission by radio to the radio actuators/gateways to switch on/off the light e.g..

By short roomlight for the power generation the Ratio®-occupancy detector PM101 can also be runned with a battery or by 24VDC.

Techn. Daten	Occupancy Detector PM101	Remarks			
Operating data	Solar Power Generator, battery-free.				
Radio technology	Protocol EnOcean-PTM, Transmission power max. 10mW EIRP	Frequency 868,3MHz Modulation ASK			
Radio module / Channels	TCM120 / 2 for present and not present				
Start up time from empty storage	<u> </u>	0 min. @ 1000 lx i h @ 200 lx or			
Movement collection	PIR-Sensor, PIR-Range 5m/360°, Angell ca. 120°, Preferred direction horizontal, Lightsensor 10 1000 Lux adjustable by potentiometer				
Measurement value logging	Every 10 minutes for the light valuet				
Transmission interval	By Event "Present"				
Range	Interior 30 to 100m				
Dimensions	Casing: LxBxT 120mm x 100mm x 25mm				
Mechanical Data	Casing: plastic ABS,	Weight: 70g			
Mounting / Assembliy	Finery on a flat underground, max. 2 m away from windows.	Adhesion or screws			
Environmental conditions	Storage temperature -4	°C +55°C 40°C +85°C 95%			
Protection category	IP20				
Approbation	R&TTE guidelines 1999/5/EC and conforming to EU regulations. ROHS conforming according to 2002/95/EC.				

Telegram								
Byte	Symbol	Significance	Value	Byte	Symbol	Meaning	Value	
0	SYNC1	Synchronization	A5h	1	SYNC2	Synchronization	5Ah	
2	HEADER	Length	0Bh	3	ORG	Type of transmitter	05h	
4	DATA3	Present ON	10h	5	DATA2	always 0	00h	
		Not present OFF	70h			-		
6	DATA1	always 0	00h	7	DATA0	always 0	00h	
8	ID3	ID-Number part 1	xxh	9	ID2	ID-Number part 2	xxh	
10	ID1	ID-Number part 3	xxh	11	ID0	ID-Number part 4	xxh	
12	STATUS	Status byte	xxh	13	CHK	Check sum	xxh	

Bezeichnung	Тур	Artikelnummer
Occupancy detector 360º / 8m with Solar-Cells, battery-less	PM101-SOL	2902000
Occupancy detector 360º / 8m with power supply 24VDC	PM101-SPG	2903000
Occupancy detector 360º / 8m with battery	PM101-BAT	2904000