LIGHTING CONTROLS

SENSOR SWITCH PIR AND PDT CEILING MOUNT OCCUPANCY SENSORS

CM SERIES



DESCRIPTION

The Sensor Switch CM Series occupancy sensor offers amazing peformance and sensitivity to small motions. The CM series is light weight and ceiling mounted with 360 degree coverage pattern. The CM-9 models offers standard range PIR sensor for smaller rooms and the CM-10 models provide extended range for larger spaces. The CM-PDT models offers dual technology PIR with Microphonics for excellent detection. The CMR line voltage models are economical solution for automatic lighting control with no power pack needed.

FEATURES

- 100% digital PIR and optional microphonics detection
- · Push-button programmable
- User adjustable time delays (30 sec to 20 min)
- No field calibration or sensitivity adjustments required
- Green LED indicator



CM-9



Supply Voltage CM-(9,10) 12-24 VAC 40/60 Hz @ 0.01 VA, 12-24 VDC @

CM-(9,10)-R 12-24 VAC 40/60 Hz @ 0.04 VA, 12-24 VDC @ 16 mA

CMR 120/277 VAC @800/1200 W, 50/60 Hz Output

CM-(9,10) Motion initiated (Int.) 24VDC output @200mA CM-(9,10)-R Motion Int. contact, SPDT 40V (AC/DC) @1A Motion Int., SPST relay 120/277VAC, CMR

@800/1200W, 1/4hp

Technology Single or dual technology sensors (per order)

CMx-(9,10) Infra-Red (IR) w/ Fresnel lens

Infra-Red (IR) w/ Fresnel lens and Sonic CMx-PDT

Microphone

Occupied Mode (Occ) Occ.-Auto ON w/Single or both technologies

with TD OFF

Dimming, Photocell & 347V versions available **Special Features**

Approximate Coverage 360 omni directional

CMx-9 CMx-10

OFF Delay Time (TD)

Indication Mounting

Color

Operating Temperature Operating Humidity Wiring

Enclosure Rating

Dimensions Weight

Approvals

Warranty

Ceiling @9' /24' dia circle (56° angle) Ceiling @9' /56' dia circle (67° angle) 9 settings from 5 seconds to 20 minutes

Green LED for set-up Direct Ceiling surface

Box Mount (Octagonal or single gang)

14°to 160° F (-10° to 71°C), Opt. -4° (-20°C)

20 to 90% non-condensing 3 or 8 wire Pig tails (see wiring)

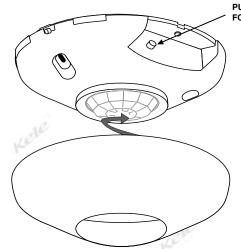
NEMA 1

4.55" Dia. x 1.55" Deep (11.56 x 3.94 cm)

0.38 lb (0.17 Kg) UL File #E167435, RoHs

5 year limited

INSTALLATION



PUSH BUTTON FOR TIMER PROGRAMMING

PROGRAMMING INSTRUCTIONS

- 1. Press button twice for function 2, occupancy time delay.
- 2. LED will flash back the selected function's current setting (5 flashes for 10 minutes time delay).
- 3. Press button the number of times indicated in Occupancy Time Delay table below to change.
- 4. To exit the current setting, wait for LED flash sequence to repeat 3 times then return to step 1.

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WIRING

STANDARD WIRING

- Power Input (12-24 VAC/VDC)

BLACK - Common

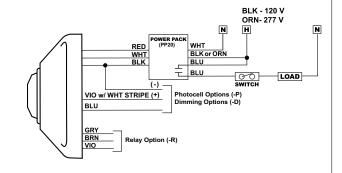
WHITE - Occupancy State (high VDC for occupied)

PHOTOCELL/DIMMING OPTIONS

BLUE - Direct output to power pack for providing photocell control and/or secondary dim time out. Output is high VDC with occupancy & low light. Output also held high during secondary dim time out. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.

VIOLET w/ WHITE STRIPE - Output to 0-10 VDC dimming control wire (typically Violet) to 0-10 VDC dimmable ballast

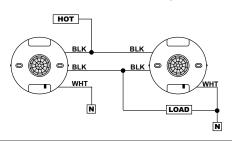
GRAY from BALLAST - Connect to sensor Black wire

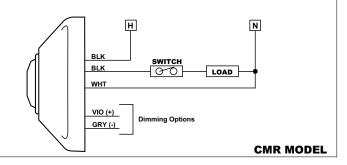


CM MODEL

SENSORS IN PARALLEL

Sensors may be wired in parallel; however, the maximum load ratings stay the same. Do not wire sensors with Photocell and dimming option in parallel.





ORDERING INFORMATION

DESCRIPTION MODEL Standard Range 360 Degree PIR Sensor-Ceiling Mount, Low Voltage, with +DC Output CM-9 Standard Range 360 Degree PIR Sensor-Ceiling Mount, Low Voltage, with SPDT, 1A relay CM-9-R Standard Range 360 Degree PIR & Microphonics Sensor-Ceiling Mount, Low Voltage, with +DC Output CM-PDT-9 Standard Range 360 Degree PIR Sensor-Ceiling Mount, Line Voltage, with Line pwr to load CMR-9 CMR-PDT-9 Standard Range 360 Degree PIR & Microphonics Sensor-Ceiling Mount, Line Voltage, with Line pwr to load CM-10 Extended Range 360 Degree PIR Sensor-Ceiling Mount, Low Voltage, with +DC Output Extended Range 360 Degree PIR Sensor-Ceiling Mount, Low Voltage, with SPDT, 1A relay CM-10-R Extended Range 360 Degree PIR & Microphonics Sensor-Ceiling Mount, Low Voltage, with +DC Output CM-PDT-10 Extended Range 360 Degree PIR Sensor-Ceiling Mount, Line Voltage, with Line pwr to load **CMR-10** Extended Range 360 Degree PIR & Microphonics Sensor-Ceiling Mount, Line Voltage, with Line pwr to load CMR-PDT-10

NOTE: Call Kele for models with low voltage relay, photocell, dimming, and low temperature options availability.

RELATED PRODUCTS

PP20 Power/Relay Pack, 120/277 VAC to 15 VDC, with 20A, SPST Relay

September 2016