

TROUBLESHOOTING

Lights Do Not TURN On

1. Check that the power is on.
2. Check that bulbs and fixtures are working properly.
3. Confirm that the sensor's wiring is as shown in the diagram.
4. Check if the ambient light setting is for a darker background than that present.

Lights Go On and Off Quickly

1. Make sure the lights are not reflecting back into the sensor. Check for white or reflective surfaces in the detection area and correct the situation.
2. Note that the sensor is more sensitive in a colder environment since infrared energy is easier to detect in cold temperatures.

Lights Do Not TURN Off

1. Make sure unit is wired correctly.
2. Check that the unit is not switched to manual.
3. Stay completely out of the detection area to avoid activating.
4. Make sure the unit is not aimed at something that would cause a temperature change such as an air conditioner or heating vents.
5. Make sure line voltage has not reduced below 215V. If voltage is not adequate, sensor will not operate properly.

Maintenance and Repair

1. Do not attempt to repair motion sensor light unit. This may damage the system (thus invalidate your warranty) or result in personal injury.
2. Clean your sensor with clean damp cloth, wiping exterior surface and lens only.

PRODUCT WARRANTY/12 MONTHS

The PDL Cat. 100MPIR Modular Passive Infrared Sensor has a 12 month warranty from the date of purchase providing the unit is installed according to these instructions, local wiring regulations and Codes of Practice. This warranty is void on any unit which has been tampered with, damaged by accident, improper operation or incorrect installation. This guarantee is in addition to, and does not in any way affect the rights under the Consumer Guarantees Act 1993, if the ACT applies to the supply of this product and you are not acquiring the product for a business use. If the ACT applies and any term is inconsistent with the terms or requirements of the ACT that term shall be invalid without affecting the remaining terms of the warranty. Note: Under the CGA 1993, Schneider Electric advises that this product does not contain user serviceable components thus spare parts and repair facilities are not available. In the event of a warranty claim, the product must be returned to the point of purchase or direct to Australia/New Zealand distributors together with the proof of purchase.



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MODULAR PASSIVE INFRARED SENSOR

INSTALLATION AND CONSUMER OPERATING INSTRUCTIONS FOR CAT 100MPIR

FEATURES



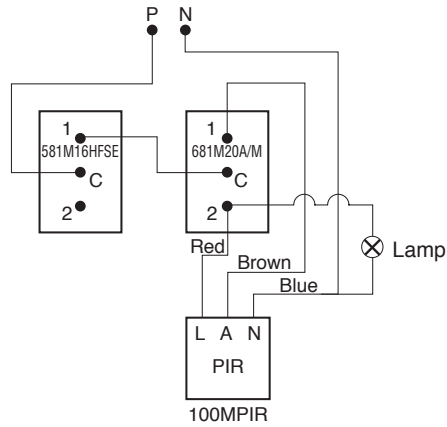
The Cat 100MPIR (Passive Infrared) Sensor Module is suitable for automatic switching (Power Saving) or security applications in domestic and commercial premises. The Sensor has a 100° horizontal and 82° vertical field of view with a 5-metre range. Switching capacity is 750W incandescent, 100W fluorescent and 100W motor ratings. The sensor controlled light is switched ON when infrared radiation from a moving target is detected and OFF again when movement stops and the pre-set time delay is reached. Time delay is adjusted between 10 seconds and 15 minutes. The Sensor has a lux (light level) adjustment. The Cat 100MPIR is fitted with a red LED indicating that the device is sensing the target.

INSTALLATION

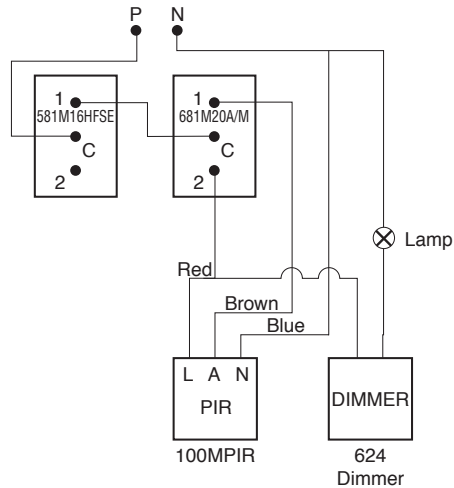
NOTE: If you are not sure about any part of these instructions you are advised to consult a qualified electrician.

1. Turn OFF power at the circuit breaker or fuse before starting this installation.
2. Before mounting the Sensor, select the most suitable location that allows the device to sense intended targets without nuisance switching. Be aware of sunlight tracking, in particular sunset; hot air exhaust vents and proximity of strong light sources, all of which can cause false triggering of the PIR device.
3. The Cat 100MPIR modular unit is fitted to the Cat 600 series by pushing it in from the front of the sub plate. It can also be ejected from the sub plate by the use of the Cat 600ME modular ejector.
4. Connect as shown in wiring diagrams on next page.

WIRING DIAGRAMS

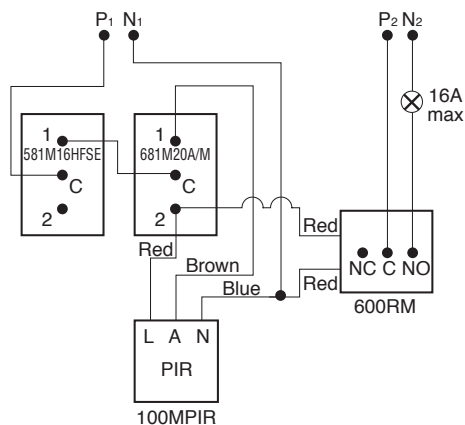


On/Off and Auto/Manual operation wired in this configuration by using the 581M16HF and the 681M20A/M.



Wired as above with the addition of the 624M dimmer in the circuit.

To reduce the effects of heat given off by the dimmer the 100MPIR should be installed vertically below the dimmer.

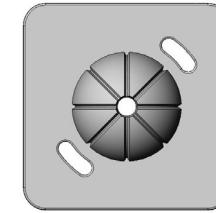
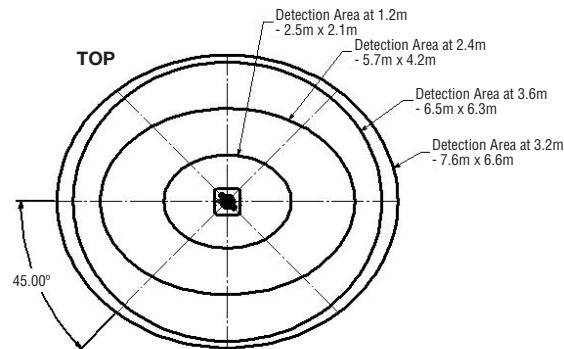


The 600RM relay module can be wired in to control loads greater than listed in the specifications of the 100MPIR.

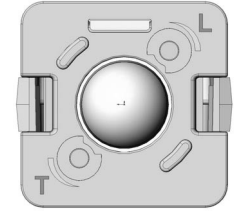
ADJUSTMENT

1. Once the installation is complete restore the supply and the adjustment can take place.
2. The clip on fascia can be removed accessing the time and lux adjustment screws.
3. By turning the screw marked "T" anticlockwise (min setting 10 sec) and turning the screw marked "L" anticlockwise (daylight setting). You are now ready to test the target area.
4. Exit the target area and wait 10 seconds for the load to turn OFF.
5. Walk through the target area to test the PIR is working the proposed target area, this can be repeated until you are satisfied the sensor is operating to your requirements.
If the load keeps turning on and off, the sensor may be picking up sudden temperature changes from a nearby source. The sensor could also be picking up movement nearby.
6. When adjusting the lux level if it is set too far toward the minimum setting (anticlockwise) it will switch on during daylight, too far toward the maximum setting (clockwise) and it may not operate even when it is dark. Ideally it should be adjusted at dusk or when light conditions are as you expect the unit to operate under.
7. The sensor has an adjustable load ON timer, which has been previously set to turn a load on for the minimum of ten seconds. Adjust the screw marked "T" to give the desired load ON timing, up to a maximum of 15 minutes.
8. Once the desired "LUX"(L) and "TIME"(T) settings have been achieved replace the clip on fascia plate and it is ready to use.
9. To clip on fascia plate line up with module so that the clips are to line up with the recesses on the module unit.

NOTE: Masking the Lens: After adjustment, if the sensor's location gives it a view of unwanted targets, the sensor's detection zone is able to be restricted by fitting the plastic shroud. Cut and fit the shroud according to the field of view that is required.



Plastic Shield



Lux and Time adjustments on module

OPERATION

The operation of the Cat 600MPIR will depend on the installation, as this is a modular unit it can be built up in different combinations using other PDL products. These include dimmers (Cat 620,624), fan speed controllers (Cat 625), buzzer modules (Cat 1588) and illumination modules (Cat 510). These are required to be wired into the load side of the circuit. The rotary style (Cat 687) can be used to give an AUTO / MANUAL /OFF option, also using the Cat 681 in conjunction with the Cat 581M16HF in gives a protected AUTO /MANUAL /OFF option as well. When a larger load is required to be switched, the sensor can be wired up in conjunction with the Cat 600RM modular relay unit.

SPECIFICATIONS

ELECTRICAL:

230-250V a.c. 50 Hz.
750W Max Incandescent. (3A)
100W Max Fluorescent.
100W Max Motor.

PROTECTION:

Double Insulated
Surge Protection (PIR circuit only)

FIELD OF VIEW:

100°Horizontal, 82°Vertical.
With a range of 5 Metres forward arc.

TIMER:

Adjustable "LOAD ON TIME"
10 Seconds to 15 minutes.

LUX:

Adjustable 1-5 lux min.
2000 lux max.

SENSITIVITY:

Factory preset.