



MC-760T Series

Microcontroller-Based PIR Sensor

Focused Logic™ with
Target Pattern Recognition
plus true small animal
immunity



Features

- **Immunity to Small Animals**
The MC-760T accurately distinguishes between small animals and human intruders. The microcontroller-based optics/firmware system uses Focused Logic with Target Pattern Recognition to analyse the spatial distribution of heat through Uniform Sensitivity Optics, focusing on the target pattern of human.
- **Digital Conversion of Incoming Signals Through Microcontroller**
All signals are converted from analogue to digital so the microcontroller has a detailed picture of the infrared signal and can process it accordingly.
- **Fast and Easy Installation**
Designed with the installer in mind, the MC-760T has a large wiring channel, a 'snap together' cover, and Zone Finder mode for quick sensor positioning. The MC-760TVB has EOL terminals for easy hook-up of EOL resistors.
- **Attractive, Slim Design**
The sleek, smooth white housing blends in with any room decor.
- **Excellent Performance in Hot and Cold Environments**
True Temperature Compensation means the MC-760T has no loss of sensitivity as room temperature nears body temperature. Plus, a cold temperature rating of -10°C, makes it ideal for garages, vacation homes, storage areas, etc.
- **Zero-Clearance Bug Guard**
Fully enclosed and gasketed bug guard prevents bugs and dust from entering the optics chamber.
- **Self Diagnostics**
The sensor performs self-diagnostics at regular intervals to ensure proper performance. The MC-760TVB can also remotely initiate tests from the control panel or central station.

Features

Look-Down Mirrored-Optics Prevent Intruder Creep

Patented 90° look-down zones detect intruders creeping directly below the sensor.

Uniform Sensitivity Optics

This custom-designed fresnel lens provides the same sensitivity at the edge of the pattern as exists directly in front of the sensor. This means excellent capture at the edges of the pattern without increasing the sensor's overall gain.

Small Animal Immunity

The MC-760T Series has small animal immunity up to 11 kg total combined weight.

Automatic Zone Finder for Quick Walk-Test

A flashing LED indicates each zone edge and takes the guesswork out of positioning the sensor. This feature is initiated for the first 10 minutes after power-up

RFI Immunity

The MC-760T has four times the industry requirements for RFI Immunity. With immunity of 40 V/m, there is no loss of performance in areas with multiple motors, computers, facsimile machines, etc.

Panel Status Input (MC-760TVB only)

An Arm/Disarm input disables LEDs while the system is armed.

Remote LED Enable (MC-760TVB only)

The alarm LED can be enabled or disabled from a remote location (control panel or central station). Without an alarm LED flashing on the sensor, unauthorised attempts to 'map' the pattern are not possible.

Event Memories (MC-760TVB only)

The MC760TVB includes alarm memory for reviewing event history.

Specifications

Dimensions

White, high impact polished ABS plastic housing
Height : 112 mm
Width : 60 mm
Depth : 40 mm
Weight : 113 g

Power Requirements

8 - 14 Vdc; 9 mA @ 12 Vdc (no alarm; LED(s) off).
15 mA max with LED on.
20 mA max during self-test (0.75 second duration).
Self-test is done after warm-up, then once every 24 hours. Timing is randomised to avoid multiple sensors simultaneously in self-test.

Tamper Switch

Form A (NC) \ 50 mA @ 30 Vdc.

Alarm Relay

Form A (NC) \ 100 mA @ 30 Vdc.

Operating Temperature

-10° ~ 55°C; 5% ~ 95% relative humidity, non-condensing.

Small Animal Immunity

For false alarm immunity to small animals up to 11 kg, the sensor must be mounted at a standard height of 2.3 m (or 3 m, depending on the type of lens used). Animals must stay at least 1.8 m from the sensor.

RF Immunity

40 V/m from all mobile bands 10-1.000 MHz.

White Light Immunity

6.500 lux (minimum).

ESD Immunity

± 12kV per IEC 801-2.

Control Signal Level (MC-760TVB only)

Test and ARM / Disarm

(-) = 0 - 1.5 Vdc

(+) = 3.5 Vdc - Vsupply

Open inputs = Inactive / Disarm

Mounting

The unit can be corner, wall or bracket mounted.

Mounting height: 2.3 m or 3 m.

Accessories

SMB-10

: Universal white swivel mount bracket
(not for MC-760TVB in VdS applications).

SMB-10T

: Tampered universal white swivel mount bracket
(not for MC-760TVB in VdS applications).

SMB-10C

: Universal white ceiling mount bracket
(not for MC-760TVB in VdS applications).

Lens option kit 18 : 3 m mount height.

Lens option kit 19 : Curtain.

Lens option kit 20 : Pet-Alley.

Approvals

UL listed

VdS Class B Environmental II (no.: G 197 521) (MC-760TVB only).

Further information on approvals, to be requested from local C&K distributors/dealers.

Detection Patterns

PIR Fields of View (2 overlapping fields of view per PIR finger)

Long range : 44
Intermediate : 12
Lower : 6
Look-down : 4

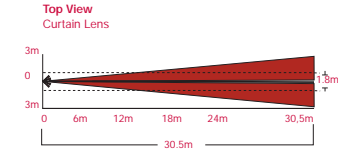
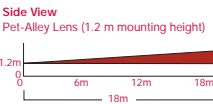
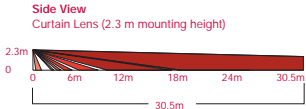
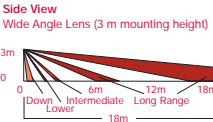
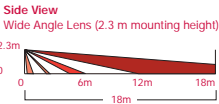
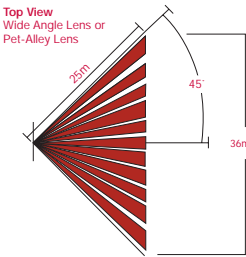
PIR Sensitivity

Switch selectable (high and normal).

Range

18 m in front of sensor (max).
25 m at 45° angle from sensor (max).

Note: When using the curtain lens the sensor must be set at HIGH sensitivity. (The minimum width for detection is 1.8 m).



For further information, please contact:

