

SSIVE INFRARED DETECTOR STANDARD VERSION

SUPERIOR VERSION WITH DOUBLE CONDUCTIVE SHIELDING

FX-40D, FX-40DL



INSTALLATION INSTRUCT

FEATURES

- · Patented Double Conductive Shielding of Pyroelectric Element (FX-40D/40DL)
- Patented Multi-Focus Lens
- · Look Down Zone
- Sealed Optics
- Temperature Compensation Circuit
- UL Listed only for models FX-40, FX-40D

EASY INSTALLATION

- · Easy Wiring Knockouts
- Spare Terminal

or heating vents

- · Wiring Guide
- · Wide Wiring Space

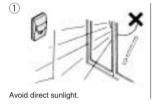
FUNCTIONS

- · Selectable Pulse Count (2 or 4)
- · LED On/Off Switch
- Tamper Switch
- Selectable Alarm Memory for Negative of Positive (FX-40L/40DL)

OPTION

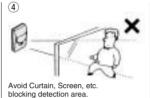
- FA-3 Wall & Ceiling Mount Bracket. (Horizontally ± 45° & Vertically 0° to 15°)
- FL-60N Curtain Long Range Lens. (60ft / 18m)

INSTALLATION HINTS 1.







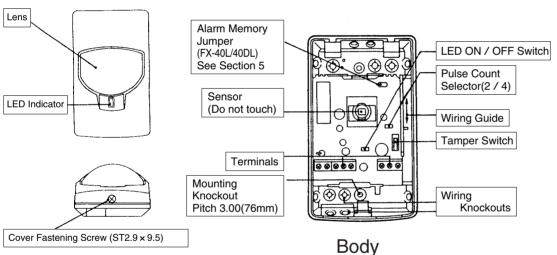


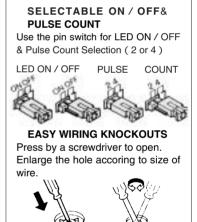


Do not install outdoors

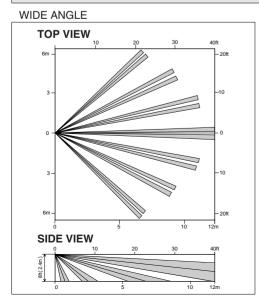
cause condensation

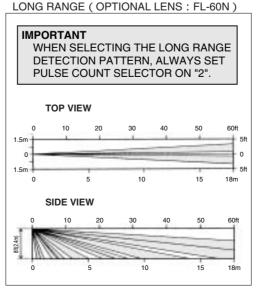
2. **DESCRIPTION AND OPERATION**

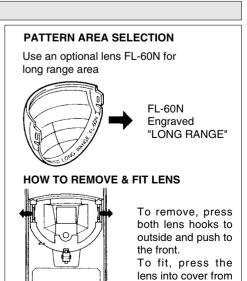




3. **DETECTION AREA**



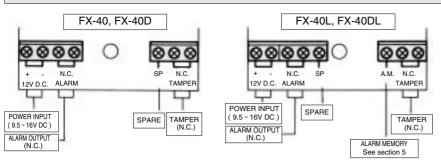




Cover inside

the front.

WIRING



Power wires should not exceed Tthe following lengths.

WIRE GAUGE	FX-40, FX-40DC		FX-40L, FX-40DL	
	12V DC	14V DC	12V DC	14V DC
AWG22(0.33mm ²)	1700'(520m)	3700'(1130m)	1180'(360m)	2520'(770m)
AWG20(0.52mm ²)	2690'(820m)	5830'(1780m)	1830'(560m)	4000'(1220m)
AWG18(0.83mm ²)	4290'(1310m)	9350'(2850m)	2950'(900m)	6430'(1960m)

When using two or more units on one wire, the maximum length is obtained by dividing the maximum wire length listed above by the number of units used.

ALARM MEMORY(FX-40L, FX-40DL)

Compatible Control Panel is required for Alarm Memory.

Connect A.M. terminal to Control Panel's Control Voltage Signal terminal (System Arming Status Voltage Output).

AM Jumper

POSITIVE: Leave AM Jumper as it is NEGATIVE: Cut AM Jumper as shown CONTROL VOLTAGE SIGNAL

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	POSITIVE	NEGATIVE
System Armed	OPEN or + 5-16VDC	0-1VDC (grounded)
System Disarmed	0-1VDC (grounded)	OPEN or + 5-16VDC

OPERATION OF ALARM MEMORY

If the unit triggered during armed period, when the system is disarmed, LED will remain lit to confirm that it reported the alarm.

- · Alarm Memory will operate even when LED is switched OFF.
- · Alarm Memory will not operate while system is disarmed.
- · After Alarm Memory latches, Alarm Output and LED operate normally during armed period.

RESET

Alarm Memory resets automatically when system is re-armed. UL requires FX-40, FX-40D to be connected to a UL listed power supply capable of providing a nominal input of 12V DC (9.5 ~ 16V DC) 11mA (max.) and battery standby time of 4 hours.

6. TROUBLE SHOOTING AND MAINTENANCE

PROBLEM	PROBABLE CAUSE	REMEDY
LED does not light.	Incorrect power supply voltage.	Correct the voltage supply to 9.5 ~ 16V DC.
	(disconnection, low voltage)	
	Incorrect detection area.	See Section 3
	Incorrect polarity to detector.	Switch positive and negative at terminal.
	LED switch is OFF	Turn on the Switch.
LED lights even	Moving object within area. (curtain, wall hanging, etc.)	Remove object from detection area, or change location of detector.
though no person is	Rapid temperature changes within area.	Remove the source from area, or change location of
within area.	(heater, air-conditioner, etc.)	detection.
LED continues to light	Poor connection of alarm memory.	Reconnect wire.
	Wrong control voltage from panel.	Must be 0 ~ 1V DC. (grounded) See Section 5
LED lights but signal is not sent.	Relay contact is stuck or damaged due to overloading.	Check load of output.
		The unit needs repair or replacement.
	Faulty wiring	Wire correctly.

Conduct a walk test at least once a year.

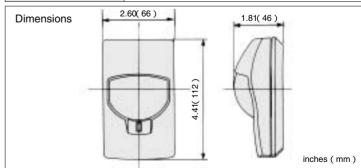
SPECIFICATIONS

MODEL	FX-40, FX-40D
Detection method	Passive Infrared
Coverange	40ft x 40ft (12m x 12m) 85° wide
Detection zones	WIDE: 72 zones
Mounting Height	5 ~ 8ft (1.5 ~ 2.4m)
Sensitivity	3°F(1.6) at 2ft / sec (0.6m / sec)
Detectable speed	1 ~ 5ft / sec (0.3 ~ 1.5m / sec)
LED indicator	Alarm indicator optional
Alarm period	Approx. 2.5 sec
Alarm output	N.C., 28V DC 0.2A max.
Tamper switch	N.C., Open when cover is removed. 28VDC 0.1A max.
Pulse Count	Approx. 20 sec 2 or 4
Warm up period	Approx. 30 sec
Power input	9.5 ~ 16VDC
Current draw	8mA(normal) 11mA(max.) at 12VDC
Weight	3.2 oz (90g)
Operating temperature	- 4° F ~ + 122° F (- 20 ~ + 50)
Environmental humidity	95% max
RF interference	NO Alarm 20V / m (FX-40 / 40L)
THE INTERIOR OF THE PROPERTY O	NO Alarm 30V / m (FX-40D / 40DL)

Specifications and design are subject to change without prior notice.

L Version (Alarm Memory) Model FX-40L, FX-40D Negative Positive Position armed: 0~1V DC (grounded) armed: OPEN or +5~16V DC Alarm Memory 8mA(normal), 16mA(max.) at 12VDC Current draw

FL-60N (Optional Lens for Long Range Area Pattern)		
Coverage	LONG: 60ft x 6ft (18m x 1.8m) Long Range	
Detection zones	LONG: 20 zones	



NOTE

This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion. This Product conforms to the EMC Directive. 89/336 EEC.



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