

TriTech™ PIR/MICROWAVE



The MX950 is a microprocessor-based TriTech™ PIR/Microwave Intrusion Detector for the DS7400 series multiplex control/communicators. Supervision features include Anti-Masking protection and Motion Monitor. Alarm and supervision trouble conditions are transmitted to the control via the multiplex bus. The MX950 has 4 different coverage patterns using field replaceable Fresnel lenses. Catch performance is fully flexible with both a PIR and microwave sensitivity adjustment.

MX950 Multiplex TriTech™ PIR/Microwave

FEATURING

- ***Supervised Microwave and PIR****
- ***Motion Monitor****
- ***Anti-Masking Feature***
- ***Selectable PIR Sensitivity****
- ***3 Mounting Options***
- ***FCC Certified***

OPTIONAL ACCESSORIES



**B335 Low
Profile Mount**



**B328
Gimbal Mount**



**TC6000
Test Cord**

*Patented

SPECIFICATIONS

CONTROL PANEL REQUIREMENTS	DS7400 (X) or DS7400Xi control/communicator with a DS7430 multiplex expansion module. The DS7400 (X) requires ROM version 1.07 or higher.
COVERAGE	<i>Standard</i> Broad: 50 ft. by 50 ft. /15 m by 15 m <i>Optional</i> Barrier 50 ft. by 50 ft. 15 m by 15 m Pet (broad) 50 ft. by 50 ft. /15 m by 15 m Long Range 100 ft. by 10 ft. / 30.5 m by 3 m
SIGNAL PROCESSING	Uses passive infrared and microwave technologies to provide an alarm condition upon simultaneous activation of both fields of protection. Alarm signals must meet the signaling requirements of both technologies to activate an alarm. Adjustable PIR and microwave sensitivity.
PIR SIGNAL PROCESSING	Motion Analyzer II uses multiple thresholds and timing windows to analyze timing, amplitude, duration, and polarity of signals to make an alarm decision. Won't alarm on extreme levels of thermal and illumination disturbances caused by heaters and air conditioners, hot and cold drafts, sunlight, lightning, and moving headlights. Motion Analyzer II Processing provides two sensitivity settings.
MICROWAVE SIGNAL PROCESSING	Pattern recognition circuitry identifies and ignores repetitive false alarm sources. Adaptive Processing adjusts to background disturbances. This helps to reduce false activations while maintaining catch performance.
POWER REQUIREMENTS	10.5 to 15 VDC, 6 mA nominal @ 12 VDC
ALARM OUTPUT	Reports as a multiplex zone through the control panel.
TAMPER OUTPUT	Indicates tamper and trouble conditions using the multiplex bus.
RADIO FREQUENCY INTERFERENCE (RFI) IMMUNITY	No alarm or setup on critical frequencies in the range from 26 to 950 Megahertz at 50 v/m.
MICROWAVE FREQUENCIES	10.525 Ghz $\pm$ 25 Mhz.
STORAGE & OPERATING TEMPERATURE	-20° to +120°F / -29° to +50°C.
TEST FEATURES	Three color alarm LED. Separate LED color for alarm, PIR, and microwave activation. Internal Noise Voltage Test Pins provide precise pattern location and background disturbance evaluation using a standard analog meter. Trouble Memory feature recalls trouble conditions.
SUPERVISION FEATURES	<i>Microwave and PIR Supervision</i> - Patented fully supervised microwave and PIR circuitry provides single technology coverage in the event the microwave subsystem fails. <i>Microwave Anti-Masking</i> - Provides supervision trouble signal if microwave reflective material (i.e. metal, wood, some plastics, etc.) is placed within one foot of the detector. <i>Motion Monitor</i> - Switch selectable 4 and 30 day Motion Monitor supervision timers provide the detector with the ability to verify that there is a clear view of the protection area and that it has not been blocked.
DRAFT/INSECT IMMUNITY	The sealed optical chamber provides immunity to drafts and insects.
ENCLOSURE DESIGN	High impact ABS plastic enclosure. Measures 5" H., by 2.8" W., by 2.2" D. / 12.7 cm H., 7.1 cm W., 5.6 cm D.
MOUNTING	<i>Standard</i> - Surface or corner mount. Recommended mounting height is 7.5 ft. / 2.3 m. Mounts to standard single gang electrical box. <i>Optional</i> - B335 Swivel Mount Bracket or B328 Gimbal Mount Bracket.
INTERNAL POINTABILITY	+2° to -10° vertical, $\pm$ 10° horizontal.
ORDERING INFORMATION	To order specify MX950 (formerly DS7476) and optional accessories. Requires a DS7400 series control with a DS7430 multiplex expander.
OPTIONAL ACCESSORIES	OLR92-3* Long Range Lens, OLB94-3* Barrier Lens, OLP94-3* Pet Lens B335-3*, Low Profile Swivel Mount Bracket, B328 Gimbal Mount Bracket, TC6000 Test Cord, or B800 Ceiling Mount Bracket. * Shipped in packages of 3.
U.S. PATENTS	#4,660,024; #4,764,755; #5,077,548; #5,083,106; #5,208,567; #5,262,783; #5,450,062, #5,268,668, #5,302,941.

COVERAGE

