

TriTech PIR/MICROWAVE



The MX835 is a microprocessor-based TriTech Passive Infrared/Microwave Intrusion Detector for the DS7400 series multiplex control/communicators. It provides immunity to false alarms caused by pets (a dog up to 100 lbs. or two dogs at sixty lbs. or up to 10 cats). Patented Passive Infrared and Microwave processing provides excellent catch performance with freedom from false alarms.

MX835 Multiplex TriTech PIR/Microwave with Pet Immunity

FEATURING

- *Artificial Intelligence*
- *Supervised Microwave and PIR**
- *Selectable PIR Sensitivity**
- *Pet Immunity**
- *Draft/Insect Immunity*
- *5 Layers including "look down" lens*
- *5 Mounting Options*
- *Vertical and Horizontal Pointability*
- *FCC Certified*

*Patented

OPTIONAL ACCESSORIES



*B335 Low
Profile Mount*



*B328
Gimbal Mount*



PET FRIENDLY™



detection systems

A member of the
Bosch Group

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	MX835 Broad: 35 ft. by 35 ft. / 11 m by 11 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 technology identifies and ignores repetitive false alarm sources. Adaptive Processing adjusts to background disturbances which helps to reduce false alarms while maintaining catch performance.
PET/ANIMAL IMMUNITY	The detector is able to distinguish between signals caused by humans and signals caused by pets (a dog up to 100 pounds or two dogs at 60 lbs. or up to 10 cats) or other small animals. This provides immunity to false alarms while maintaining proper catch performance of human targets.
DRAFT/INSECT IMMUNITY	The sealed optical chamber provides immunity to drafts and insects.
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	-40° to +120°F / -40° to +50°C.
TEMPERATURE COMPENSATION	The sensor adjusts its sensitivity to maintain consistent catch performance at critical temperatures.
TEST FEATURES	Externally visible, tricolor alarm LED indicates each technology independently and flashes to indicate a trouble condition.
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.
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 6.5 ft. / 2 m. Mounts to standard single gang electrical box. <i>Optional</i> - B335 Swivel Mount Bracket, B328 Gimbal Mount Bracket, or B800 Ceiling Mount Bracket.
INTERNAL POINTABILITY	+2° to -10° vertical, $\pm$ 10° horizontal (unit is shipped with look down lens masked).
ORDERING INFORMATION	To order specify MX835 (formerly DS7477), and/or optional accessories. Requires a DS7400 series control with a DS7430 multiplex expander.
OPTIONAL ACCESSORIES	B335-3* Low Profile Swivel Mount Bracket, B328 Gimbal Mount Bracket, or B800 Ceiling Mount Bracket. * Shipped in packages of 3.
U.S. PATENTS	#4,660,024; #4,764,755; #5,077,548; #5,208,567; #5,262,783; #5,450,062; #5,670,943; #5,268,668; #5,302,941.
LISTINGS	UL Listing BP1448

COVERAGE

