

Passive Infrared

DS794Z Long Range Passive Infrared Detector

DS794Z

Specify optional accessories, if necessary.



The DS794Z is a Long Range Passive Infrared Intrusion Detector which uses Motion Analyzer II Signal Processing to reduce false alarms. Several unique test features, including Motion Monitor, provide coverage integrity. Field replaceable mirrored optics, and 3 different coverage patterns provide installation flexibility.

■ Features

- Motion Analyzer II Processing*
- Motion Monitor*
Switch-selectable 4 and 30 day timers verify that there is a clear view of the protection area.
- PIR Supervision
Provides trouble output in the event that PIR Circuitry fails.
- Self-Test Supervision Systems
- Field-changeable Optics
- 3 Coverage Patterns
- UL Listed, ULC Listed, CE

*patented

■ Basic Functions

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 three sensitivity settings.

Test Features

External visible alarm LED flashes to indicate trouble condition. Internal Noise Voltage Test Pins provide precise pattern location and background disturbance evaluation using a standard analog meter. Internal sounder output for use with Sonalert sounder (not supplied by DS).

■ Certification

UL Listing	BP1448
ULC Listing	CBP196
CE-EMC	89/336

■ Patents

4,764,755	5,083,106
4,920,268	

■ Coverage

Standard Coverage

Broad: 80 ft. x 50 ft. (24 m. x 15 m)

Long Range: 200 ft. x 10.5 ft. (61 m. x 3 m)

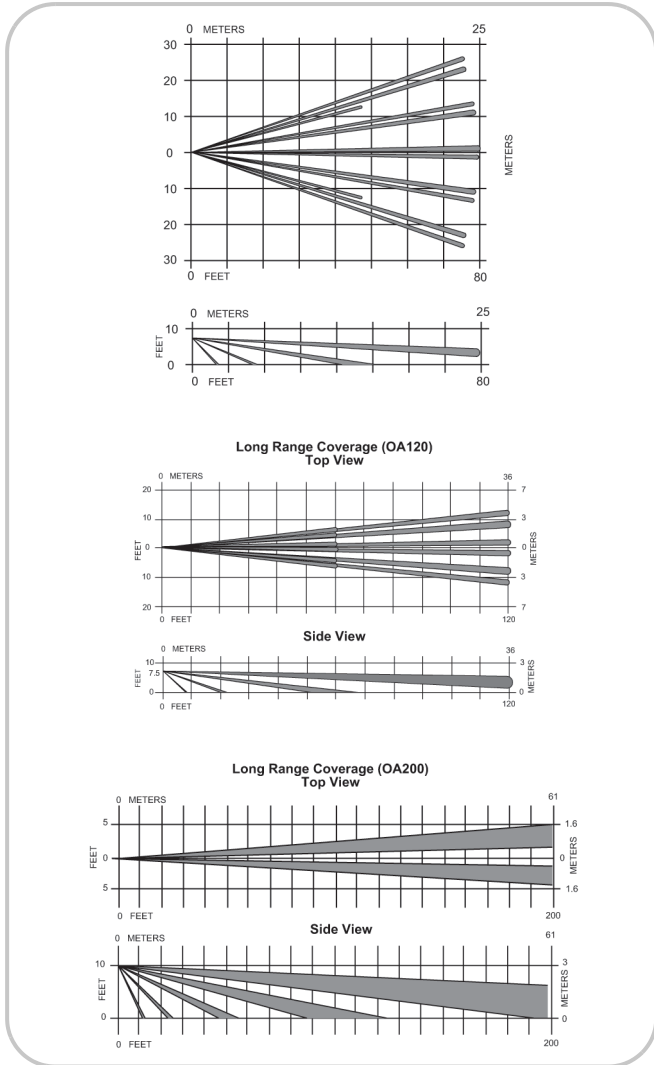
Optional Coverage

Long Range: 120 ft. x 25 ft. (37 m. x 8 m)



detection systems

A Member of the
Bosch Group




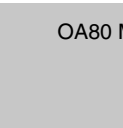


Technical Specifications

Power Requirements	6 to 15 VDC, 18 mA @ 12 VDC
Alarm Output	Form "C" contacts rated at 3.0 watts, 125 mA @ 28 VDC for resistive loads.
Tamper Output	Normally Closed (with cover in place). Contacts rated at 28 VDC, 125 mA maximum.
Trouble Output	Solid state output, shorts to negative when activated. Maximum current load is 25 mA.

Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range from 26 to 950 Megahertz at 50 v/m.
Storage & Operating Temperatures	-20°F to +120°F (-29°C to +49°C). For UL Certificated installations, +32°F to +120°F (0°C to +49°C).
Enclosure Design	High impact ABS white plastic enclosure. Measures (HxWxD) 5 in. x 7.5 in. x 5 in. (14 cm x 21 cm x 14 cm).
Standard Mounting	Surface or corner mount. Bracket mount on wall or ceiling using the supplied B334 Swivel Mount Bracket. Maximum mounting height is 15 ft. (5 m).

Optional and Standard Accessories

	TC6000 Test Cord		OA120 Mirror
	OA200 Mirror (standard)		OA80 Mirror (standard)