

DS160/DS161 High Performance Request-to-Exit Sensors



The Detection Series consists of the DS160 and DS161 Detectors specifically designed for Request-to-Exit (REX) applications. With features such as built-in timers, door monitor with sounder alert, and pointable coverage, the DS160 and DS161 have the flexibility to meet the most stringent REX requirements. The exclusive Sequential Logic Input (SLI) provides added security that is not offered in any other REX device.

■ Features

- Door monitor with sounder alert
- Sequential Logic Input (SLI)
- Internal vertical pointability
- Wrap-around coverage pattern with precise pattern control
- Up to 64 second adjustable latch time
- Selectable relay trigger mode
- Selectable fail safe/fail secure modes
- Adjustable sounder volume
- Activation LED

■ Basic Functions

Sequential Logic Input (SLI)

The SLI terminal allows connection of a second device to require sequential detection. This eliminates the possibility that an object that is slid through the door or underneath the door will activate the detector. This input can also be used to lock the detector if motion is present outside the premises.

Door monitor

The detector can monitor a door contact to allow special control of the internal relay. For example, if the door is opened within the relay time period, the detector can be programmed to halt the timer. If the door is not opened within a specific time period, the relay can be programmed to deactivate.

Sounder alert

An integrated sounder can be programmed to activate if the door is left open too long. The sounder volume is fully adjustable to 85 dB.

Keycard input

The keycard input allows the detector relay to be controlled from an external source, such as an access control system or card reader.

■ Certifications

UL Standard

UL294, Access Control System Units

■ Patents and Trademarks

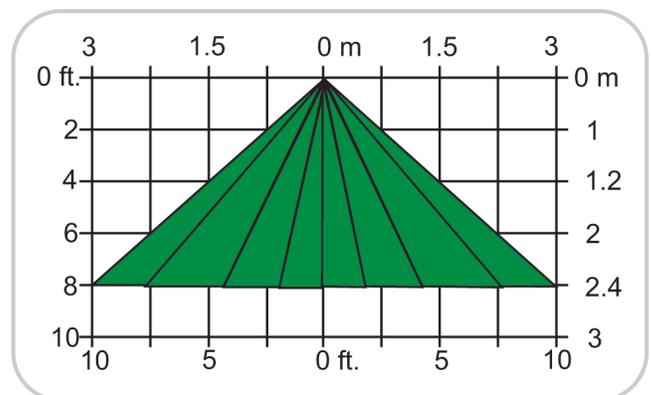
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■ Planning

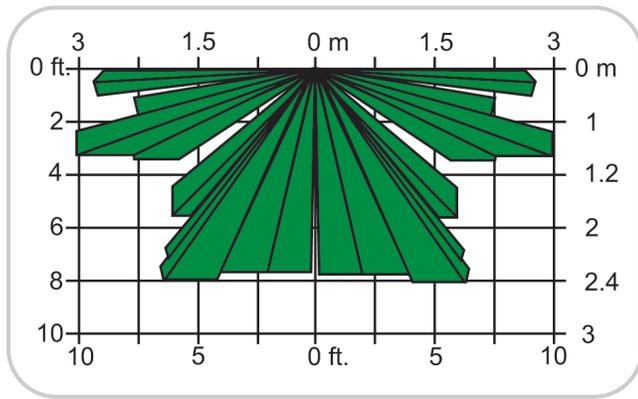
The coverage is dependent on mounting height. Typically, the coverage is 8 ft. x 10 ft. (2.4 m x 3 m).

Typical coverage patterns for the detector at a height of 7.5 ft. (2.3 m) are shown. The coverage pattern increases/decreases with height and detector alignment.

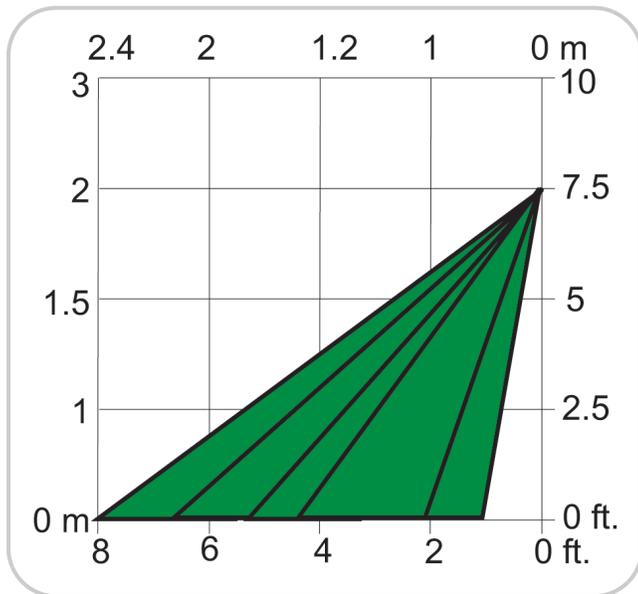
Front View



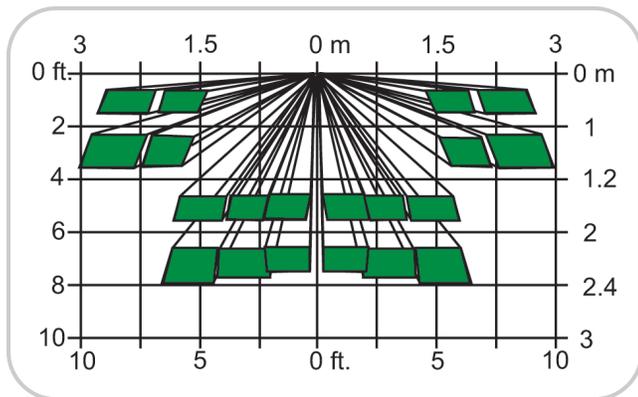
Top View



Side View



Pattern on Floor

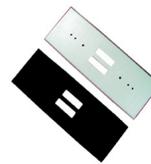


■ Technical Specifications

Alarm Output	2 Form "C" relay contacts each rated 1A @ 30 VAC or VDC for resistive loads
Enclosure Design	
Dimensions (HxWxD):	1.80 in. x 6.75 in. x 1.75 in. (4.5 cm x 17.1 cm x 4.4 cm)
Material:	High impact ABS plastic enclosure
Environmental Considerations	
Operating Temperature:	-20°F to +120°F (-29°C to +49°C) <i>For UL Certificated installations, +32°F to +120°F (0°C to +49°C)</i>
Mounting	
Location:	Surface mount
Indicators	1 activation LED
Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range from 26 MHz to 1000 MHz at 50 v/m
Relay Latch Time	Adjustable from 0.5 seconds to 64 seconds.
Power Loss Default	Programmable fail-safe or fail-secure modes.
Power Requirements	12 to 30 VAC, 12 to 30 VDC, 8 mA nominal standby current, 39 mA @ 12 VDC in alarm
Timer Mode	Programmable resettable (accumulative) or non-resettable (counting) mode.

■ Hardware Options

TP160/TP161 Trim Plates



A trim plate that allows mounting the detector over a standard single gang box.

TP160: light gray, TP161: black

DS160 Surface Mount Detector in Light Grey Enclosure

Prod. ID

DS160



DS161 Surface Mount Detector in Black Enclosure

Prod. ID

DS161



