DS160 Series High Performance Request-to-exit Detectors

www.boschsecurity.com





The DS160 Series consists of the DS160 Detector (light gray) and the DS161 Detector (black) specifically designed for Request-to-exit (REX) applications. With features such as 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.

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 sensor if motion is present outside the premises.

Door Monitor

The sensor 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 sensor 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.

- 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

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 sensor relay to be controlled from an external source, such as an access control system or card reader.

Certifications and approvals

Europe	Complies with EN50131-1 Grade 2	
Region	Certifica	tion
Australia	RCM	
Europe	CE	2004/108/EC EMC Directive; 2006/95/EC Low-Voltage Directive; 2011/65/EU Restriction of the use of certain hazardous substances in electri- cal and electronic equipment
USA	UL	ALVY: Access Control Systems Units (UL294)

Installation/configuration notes





Front View

Mounted on wall above door and mounted on ceiling . 75 m (2.5 ft) in front of the door.





The higher that you mount the unit, the larger the coverage area. Do not mount the DS160/DS161 more than 4.6 m (15 ft) above the floor.

Side view of coverage pattern with the unit mounted at 4.6 m (15 ft) above the floor with the lens pointed straight down.





Side View

The higher that you mount the unit, the larger the coverage area. Do not mount the DS160/DS161 more than 4.6 m (15 ft) above the floor. Side view of coverage pattern with the unit mounted at 4.6 m (15 ft) above the floor with the lens pointed straight down.

Coverage Information

The coverage (detection area) varies depending on the mounting height above the floor, angle of the lens, and whether the unit is mounted on a wall above the door or on the ceiling. The coverage is 2.4 m x 3 m (8 ft x 10 ft) The coverage patterns for the detector at a height of 2.3 m (7.5 ft) are shown. The coverage pattern increases or decreases with height and detector alignment.



Notice

When you mount the unit on the wall and the lens points straight down, some detection zones point toward the wall and do not detect movement.

The diagrams depict views of the coverage pattern with the detector mounted at 2.3 m (7.5 ft) above the floor with the lens pointed straight down. Zones that are pointed toward the wall are not shown.

Technical specifications

Environmental

Operating Temperature:	-29°C to +49°C (-20°F to +120°F) For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)
Radio Frequency	No alarm or setup on critical frequencies in
Interference (RFI)	the range from 26 MHz to 1000 MHz at
Immunity:	50 V/m

Complies with Environmental Class II (EN50130-5)

Mechanical

Alarm Output:

Dimensions:	4.5 cm x 17.1cm x 4.4 cm (1.80 in. x 6.75 in. x 1.75 in.)	
Material:	High impact ABS plastic enclosure	
Modes		
Power Loss Default:	Programmable fail-safe or fail-secure modes.	
Timer:	Programmable reset accumulative or non-reset counting mode.	
Electrical		
Current Draw:	8 mA nominal standby current, 39 mA at 12 VDC in alarm	
Voltage:	12 VAC or VDC to 30 VAC or VDC	

or VDC for resistive loads

Two Form C relay contacts each rated 1 A at 30 VAC

Indicators:	1 activation LED
Relay Latch Time:	Adjustable from 0.5 sec to 64 sec.

Ordering information

DS160 Request-to-exit Detector

For use in request-to-exit (REX) applications. Provides PIR 2.4 m x 3 m (8 ft x 10 ft) coverage, timers, door monitor with sounder alert, and pointable coverage. Order number **DS160**

DS161 Request-to-exit Detector

Black enclosure. For use in Request-to-EXit (REX) applications. Provides PIR, 2.4 m x 3 m (8 ft x 10 ft) coverage, timers, door monitor with sounder alert, and pointable coverage. Order number **DS161**

Accessories

TP160 Trim Plate

A light gray trim plate used when mounting the detector over a standard single-gang box. Order number **TP160**

TP161 Trim Plate

A black trim plate used when mounting the sensor over a standard single-gang box. Order number **TP161**

Represented by:

Americas:

Bosch Security Systems, Inc. 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096 Fax: +1 585 223 9180 security.sales@us.bosch.com www.boschsecurity.us Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5617 BA Eindhoven, The Netherlands Phone: + 31 40 2577 284 Fax: +31 40 2577 330 emea.securitysystems@bosch.com www.boschsecurity.com

 Asia-Pacific: Robert Bosch (SEA) Pte Ltd, Security Systems
 therlands
 11 Bishan Street 21 Singapore 573943 Phone: +65 6571 2609 apr.securitysystems@bosch.com ww.boschsecurity.asia

China:

Bosch (Shanghai) Security Systems Ltd. 201 Building, No. 333 Fuquan Road North IBP Changning District, Shanghai 200335 China Phone +86 21 22181111 Fax: +86 21 22182398 www.boschsecurity.com.cn

America Latina:

Robert Bosch Ltda Security Systems Division Via Anhanguera, Km 98 CEP 13065-900 Campinas, Sao Paulo, Brazil Phone: +55 19 2103 2860 Fax: +55 19 2103 2860 Iatam.boschsecurity@bosch.com www.boschsecurity@bosch.com

© Bosch Security Systems 2014 | Data subject to change without notice 2634909195 | en, V7, 17. Mar 2014