DS416 Single-Beam Photoelectric Detector

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- ▶ Single beam detection
- ▶ 10 m (30 ft) range
- ► Internally pointable optics
- ► AC/DC operation

The pole or surface mount DS416 Single Beam Photoelectric Detector is designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver, it is designed to activate an alarm when an intruder passes within the direct line of sight between the transmitter and receiver. Its compact design makes it an ideal choice for short range outdoor applications.

Functions

Test Features

Red alarm LED activates upon detection. Green LEDs indicate normal operation.

Certifications and approvals

Region	Certific	cation
Europe	CE	89/336/EEC, EN50081-1: 1992 (EN55022: 1998, ClassB), EN50130-4: 1995 +A1: 1998, EN61000-4-2: 1995, EN61000-4-3: 1995, EN61000-4-4: 1995, EN61000-4-5: 1995, ENV50141: 1993
USA	UL	ANSR: Intrusion Detection Units (UL639)

Technical specifications

Photobeam

Outdoor Range:	10 m (30 ft)
Beam:	Pulsed infrared; 950 nm, 1 kHz
Response Time:	100 ms minimum

Environmental Considerations

Operating Temperature:	-20°C to +50°C (-4°F to +122°F)
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Mounting Considerations

Location:	Pole mount or surface mount
Pointability:	Coverage is adjustable $\pm 90^{\circ}$ horizontally, $\pm 5^{\circ}$ vertically.

Enclosure Design

Dimensions:	14 cm x 8.6 cm x 10.7 cm (5.5 in. x 3.4 in. x 4.2 in.)
Material:	Smoked Lexan® housing.

Power Requirements

Current Consumption (at 12 VDC):	Transmitter: 7 mA maximum Receiver: 25 mA maximum
Voltage:	10 VDC to 26 VDC; 8 VAC to 18.5 VAC.
Relay:	Form C alarm-activated contacts rated at 0.5 A maximum at 120 VAC; 1 A maximum at 24 VDC (resistive load).
Tamper:	Normally-closed with cover in place; rated 0.5 A at 30 V.

Trademarks

Lexan® is either a trademark or registered trademark of General Electric Company in the United States and other countries.

Ordering information

DS416 Single-Beam Photoelectric Detector

Provides single beam detection and 10 m (30 ft) range.

Order number **DS416**

Accessories

MP1 Metal Pole, 1 m (3 ft)

Straight metal poles measuring 1 m (3 ft) for pole mounting photoelectric detectors. Shipped in packages of two.

Order number MP1

MP2 Metal Pole, 1.2 m (4 ft)

Straight metal poles measuring 1.2 m (4 ft) for pole mounting photoelectric detectors. Shipped in packages of two.

Order number MP2

MP3 L-Curved Metal Pole

Curved metal poles for mounting to vertical surfaces for pole mounting photoelectric detectors. Shipped in packages of two.

Order number MP3

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 11 Bishan Street 21 Singapore 573943 Phone: +65 6571 2808 Fax: +65 6571 2699 apr.securitysystems@bosch.com www.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 CFP 13065-900 Campinas, Sao Paulo, Brazil Phone: +55 19 2103 2860 Fax: +55 19 2103 2862 latam.boschsecurity@bosch.com www.boschsecurity.com