

**BLD1-P-F1 TriTech Detector
(10.525 GHz)**

Order number BLD1-P-F1

The BLD1-P-F1 TriTech detector has a microwave frequency of 10.525 GHz and is intended for use in all countries within the Americas (North, Central, and South), all countries in the Asia/Pacific region, and in the following countries:

Belgium	Denmark	Greece
Hungary	Italy	Netherlands
Norway	Poland	Romania
Spain	Sweden	Ukraine

**BLD1-P-F3 TriTech Detector
(9.9 GHz)**

Order number BLD1-P-F3

The BLD1-P-F3 TriTech detector has a microwave frequency of 9.9 GHz and is intended for use in the following countries:

Austria	Croatia	Denmark
Finland	Greece	Hungary
Italy	Netherlands	Portugal
Romania	Turkey	

Bosch Security Systems
130 Perinton Parkway
Fairport NY 14450
USA

For more information, visit:
www.boschsecuritysystems.com

BOSCH**Blue Line D1-P
TriTech® Detectors****Security Systems**

The BLD1-P TriTech detectors use a combination of passive infrared (PIR) and microwave detection technologies. With advanced signal processing and these detection technologies, the detectors generate alarms for human intruders without generating false alarms for pets. These small unobtrusive detectors are simple to install and do not need field adjustments.

Series Features

- Dual detection technologies with advanced signal processing
- Flexible mounting height
- Supervised microwave
- No adjustment necessary
- Pet Friendly®
- Draft and insect immunity
- Eight detection layers including optional look-down zone
- Temperature compensation
- Combined cover and wall tamper
- Optional camera modules

Series Functions**Advanced signal processing**

Adaptive processing adjusts to background disturbances thereby reducing false alarms without sacrificing the ability to respond to an intruder.

First Step Processing (FSP) allows virtually instant response to human targets without generating false alarms for other sources. FSP adjusts the detector's sensitivity based on signal amplitude, polarity, slope, and timing. This eliminates the

need for the installer to select the sensitivity level. Each sensor (PIR and microwave) is processed individually, and the alarm relay does not activate unless both sensors agree there is an alarm.

Test features

An externally-visible, tricolor (blue, yellow, green) alarm LED (light-emitting diode) indicates the status of each sensor independently.

Supervised microwave

The microwave circuit is fully-supervised. If the microwave subsystem fails, the PIR subsystem provides single technology coverage.

Pet immunity (not tested by UL)

The detector can distinguish between signals caused by humans and signals caused by pets. It ignores signals caused by one or two pets up to 100 lb (45 kg) or numerous rodents.

Draft and insect immunity

The sealed optical chamber prevents drafts and insects from affecting the detector.

Temperature compensation

The sensor adjusts its sensitivity to maintain its ability to identify human intruders at critical temperatures.

Security you can rely on.**BOSCH**

Series Listings, Certifications, and Approvals

Country	Certification/Listing Number
Europe	CE
US	ANSR: Intrusion Detection Units (UL639) FCC (ESVDS8351)

Trademarks

Pet Friendly® and TriTech® are registered trademarks of Bosch Security Systems in the United States.

Application Information

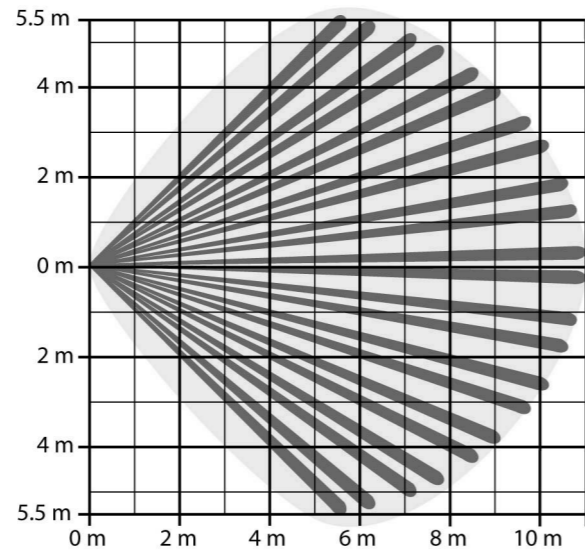
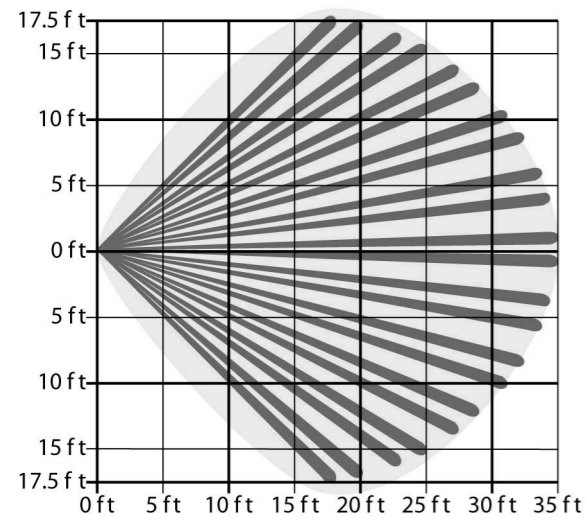
Coverage Patterns

Coverage Pattern Legend

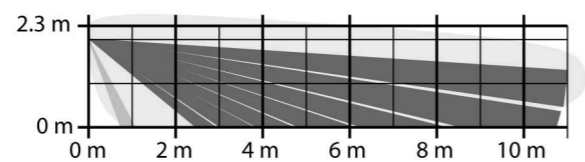
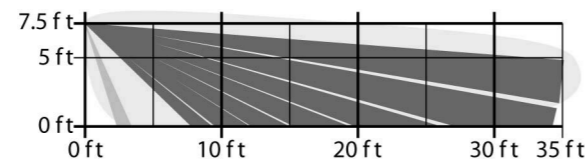
-  PIR pattern
-  Microwave pattern
-  Look-down Zone

Broad: 35 ft x 35 ft (11 m x 11 m)

Top View



Side View



Mounting

The recommended mounting height is 7.5 ft to 9 ft (2.25 m to 2.74 m).

The detector can be mounted:

- on a flat wall (surface, semi-flush), with the optional B335 Swivel-Mount Bracket, or with the optional B328 Gimbal-Mount Bracket,
- at the junction of two perpendicular walls, or
- on the ceiling with the optional B338 Ceiling Mount Bracket.

Standby Power

This detector has no internal standby battery. *For UL Listed product installations, 4 hr (60 mAh) of standby power must be supplied by the control unit or by a UL Listed burglary power supply.*

Series Technical Specifications

BLD1-P Series Specifications	
Enclosure Design	
Color:	white
Dimensions (HxWxD):	5.2 in. x 2.4 in. x 1.9 in. (13.2 cm x 6.1 cm x 4.8 cm)
Material:	High-impact ABS plastic
Environmental Considerations	
Relative Humidity:	0 to 95%, noncondensing
Operating Temperature:	-20°F to +120°F (-29°C to +49°C) <i>For UL Listed product installations, +32°F to +120°F (0°C to +49°C)</i>
Outputs	
Digital Alarm:	5 V normally, ground for 4 seconds during alarm.
Relay:	Solid state, supervised Form A normally-closed (NC) contacts rated for 125 mA at 28 VDC, 3 W.
Tamper:	Normally-closed (NC) contacts (with cover on) rated at 28 VDC, 125 mA maximum. Connect tamper circuit to 24-hour protection circuit.
Power Requirements	
Current (Alarm):	22 mA
Current (Standby):	15 mA maximum at 12 VDC
Voltage (Operating):	6 VDC to 15 VDC
Radio Frequency Interference (RFI) Immunity:	No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 v/m.

Hardware Accessories

B328-3 Gimbal Mount Bracket



A gimbal-mount bracket that allows the installer to rotate and swivel the detector. Shipped in packages of three.

B335-3 Low Profile Mount Bracket



A low-profile bracket that allows the installer to swivel the detector. Shipped in packages of three.

B338-3 Ceiling Mount Bracket



A bracket for ceiling-mounting the detector. Shipped in packages of three.

BLA1-CM Monochrome Camera Modules



Monochrome camera modules that snap onto the top of the BLD1-P detector. A camera module measures (HxWxD) 2.2 in. x 2.4 in. x 1.85 in. (5.6 cm x 6.1 cm x 4.7 cm).
BLA1-CM-C: CCIR,
BLA1-CM-E: EIA

BLA1-CC Color Camera Modules



Color camera modules that snap onto the top of the BLD1-P detector. A camera module measures (HxWxD) 2.2 in. x 2.4 in. x 1.85 in. (5.6 cm x 6.1 cm x 4.7 cm).
BLA1-CC-N: NTSC,
BLA1-CC-P: PAL