

# PHOTOELECTRIC DETECTORS



The DS420 Series are dual beam indoor/outdoor Photoelectric Intrusion Detectors that consist of separate transmitters and receivers. The transmitters emit invisible infrared beams to the receivers. If the beams are broken, the receivers signal an alarm.

## DS420 Series Dual Beam Photoelectric Detectors

### FEATURING . . . . .

- Dual Beam Detection
- 3 Coverage Ranges
- 2 Mounting Options
- Adjustable Trigger Response Time
- UL Listed
- CE

### OPTIONAL ACCESSORIES



AL402  
Alignment  
Light



MP-3 L  
Curved  
Metal Pole



MP-1/MP-2  
3 ft./4 ft.  
Metal Pole



## SPECIFICATIONS

<b>COVERAGE</b>	DS422 130 ft. indoors, 65 ft. outdoors / 40 m indoors, 20 m outdoors DS424 260 ft. indoors, 130 ft. outdoors / 0 m indoors, 40 m outdoors DS426 390 ft. indoors, 195 ft. outdoors / 120 m indoors, 60 m outdoors
<b>POWER REQUIREMENTS</b>	9.8 to 28 VDC. Each transmitter draws 15 mA DC. Each receiver draws 25 mA DC.
<b>STANDBY CURRENT</b>	Intended for connection to DC power supplies capable of supplying power if primary power fails. <i>Four hours (100 mA-H) minimum are required for Underwriters Laboratories' Certificated Installations.</i>
<b>ALARM OUTPUT</b>	Form "C" contacts rated 0.2 Amps; 24 VDC.
<b>TAMPER OUTPUT</b>	Normally Closed cover activated tamper switch.
<b>BEAM INTERRUPT TIME</b>	35 to 500 milliseconds, selectable.
<b>RADIO FREQUENCY INTERFERENCE (RFI) IMMUNITY</b>	No alarm or setup on critical frequencies in the range from 26 to 950 Megahertz at 50 v/m.
<b>STORAGE &amp; OPERATING TEMPERATURE</b>	-22° to +140°F / -30° to +60°C. 0 to 95% relative humidity (non-condensing). <i>For UL Certificated Installations +32° to 120°F / 0° to 49°C.</i>
<b>TEST FEATURES</b>	Externally visible alarm LED. Internal transmitter operation LEDs. Voltage output at receivers for alignment purposes. The LED flashes at different rates during alignment to assist in installation.
<b>PATTERN POINTABILITY</b>	±90° horizontal, ±5° vertical
<b>ENCLOSURE DESIGN</b>	High impact acrylic enclosure. Measures 6.75" H., by 2.6" W., by 2.6" D. / 17.1 cm H., by 6.5 cm W., by 6.5 cm D.
<b>MOUNTING</b>	Pole mount 1 5/8" to 1 3/4" / 4.11 cm – 4.45 cm O. D. pole. Surface or pole mount. Mounts to standard single gang box.
<b>ORDERING INFORMATION</b>	To order specify DS422, DS424, or DS426 and optional accessories. Each set includes a transmitter and receiver.
<b>OPTIONAL ACCESSORIES</b>	MP-1 3 ft. Metal Pole (2), MP-2 4 ft. Metal Pole (2), MP-3 L-Curved Metal Pole (2), AL402 Alignment Light. <i>All options provide enough equipment for one beam pair.</i>
<b>LISTINGS</b>	UL Listing S3019, CE – EMC 89/336

## COVERAGE



**DS422** 130 ft. indoors, 65 ft. outdoors / 40 m indoors, 20 m outdoors  
**DS424** 260 ft. indoors, 130 ft. outdoors / 80 m indoors, 40 m outdoors  
**DS426** 390 ft. indoors, 195 ft. outdoors / 120 m indoors, 60 m outdoors