


**BOSCH**

Invented for life

# ISC-PDL1-WA18x Professional Series TriTech+ Detectors with Anti-mask



- ▶ **18 m x 25 m (60 ft x 80 ft) standard coverage, 8 m x 10 m (25 ft x 33 ft) selectable short range coverage**
- ▶ **EN50131-2-4 Grade 3 compliant**
- ▶ **Sensor data fusion technology**
- ▶ **Tri-focus optics technology**
- ▶ **Range adaptive radar**
- ▶ **MANTIS anti-mask**
- ▶ **Active white light suppression**
- ▶ **Dynamic temperature compensation**
- ▶ **Remote walk test**
- ▶ **Alarm memory**

The ISC-PDL1-WA18x Professional Series TriTech+ Detectors with Anti-mask are exceptionally suited for commercial indoor applications. MANTIS anti-mask technology makes obscuring the detector view nearly impossible for intruders. Sensor data fusion technology ensures that the detector sends alarm conditions based on precise information. Tri-focus optics eliminate coverage gaps and respond efficiently to intruders. The powerful combination of unique features in the Professional Series delivers superior catch performance and virtually eliminates false alarms.

The self-locking two-piece enclosure, built-in bubble level, flexible mounting height, and three optional mounting brackets simplify installation and reduce service time.

## Functions

### Sensor Data Fusion Technology

Sensor data fusion technology is a unique feature that uses a sophisticated software algorithm to gather signals from five sensors: two pyroelectric sensors, a range adaptive radar sensor, a room temperature sensor, and a white light level sensor. The microcontroller analyzes and compares the sensor data to make the most intelligent alarm decisions in the security industry.

### Tri-focus Optics Technology

Tri-focus optics technology uses optics with three specific focal lengths: long-range coverage, middle-range coverage, and short-range coverage. The detector applies the three focal lengths to 86 detection zones, which combine to make 11 solid curtains of detection. Tri-focus optics technology also includes two pyroelectric sensors, which deliver twice the standard optical gain. The sensors process multiple signals to deliver precise performance virtually free of false alarms.

### Range Adaptive Radar

The microwave transceiver automatically adjusts its detection thresholds based on input from the PIR sensors. Integrating the target distance information from the PIR significantly reduces false alarms from the microwave Doppler radar.

### MANTIS Anti-mask Technology

MANTIS (**M**ulti-point **A**nti-mask with **I**ntegrated **S**pray detection) uses patented prism lenses and active infrared detection to provide industry-leading protection against all known forms of attack. MANTIS complies with the latest worldwide regulatory standards for detecting objects covering or placed in front of the detector. MANTIS is sensitive to materials regardless of texture or color, including fabric, paper, metal, plastic, tape, and spray. When MANTIS identifies a masking material, the detector sends a supervision anti-mask signal to the control panel.





