

# Motion Detectors for all applications



**BOSCH**  
Invented for life

Bosch offers an extensive range of high-quality motion detectors equipped with cutting edge technology. Bosch has a reputation for high security, excellent catch performance, superior false alarm immunity, and easy installation. In order to achieve this, we have incorporated a number of unique technologies:



► **Sensor Data Fusion sets the industry standard for catch performance and false alarm immunity:** Data from up to six sensing systems is simultaneously analyzed by a proprietary digital signal processing algorithm embedded in a high-performance microcontroller. Alarm decisions are based upon a complex algorithm, which adjusts alarm thresholds based upon input from each sensor. This technology improves catch performance by 35 percent and takes false alarm immunity and responsiveness to a whole new level.

► **Multi-point Anti-mask with Integrated Spray Detection certified by an accredited lab to EN50131 Grade 3:** Conforms with regulatory requirements for protection against sabotage attempts as well as accidental masking of the detector. Integrates four active IR emitters and three dedicated IR sensing elements. Three detection techniques provide performance superior to all other available detectors. Performance that has been validated through a laboratory accredited for EN50131 certification.

► **Advanced design features for ease of installation:** The unique design of Bosch detectors provides many benefits for installers that decrease installation time by up to 45 percent and reduce the risk of installation errors. There is no adjustment needed in the specified mounting height. The unique two-piece ergonomic housing simply slides into place and automatically locks, requiring only seconds to mount. The sealed optical chamber prevents insects and debris from entering and also protects electronics from accidental damage from screwdrivers, wires, etc. during installation. A built-in bubble level allows accurate horizontal and vertical alignment without extra tools\*. The custom-designed plug-in terminal block with angled wire entries eliminates incorrect insertions, thus providing convenience and increased connection reliability\*. Electronics are protected by a plastic cover and are located within the front cover to eliminate accidental damage during installation of the mounting base.

\* Professional Series detector range

## Wall mount motion detectors

Description	Blue Line Series						Commercial Series		Professional Series											
	ISC-BPR2-W12	ISC-BPR2-WP12	ISC-BPQ2-W12	ISC-BDL2-WP6	ISC-BDL2-W12	ISC-BDL2-WP12	ISC-CDL1-W15	ISC-CDL1-WA15	ISC-PPR1-W16	ISC-PDL1-W18	ISC-PPR1-WA16	ISC-PDL1-WA18	ISC-PDL1-WC30	ISC-PDL1-WAC30						
Type of Motion Detector	PIR	PIR	Quad PIR	TriTech (PIR + MW)	TriTech (PIR + MW)	TriTech (PIR + MW)	TriTech (PIR + MW)	TriTech+ with Anti-mask (PIR + MW)	PIR	TriTech (PIR + MW)	PIR+ with Anti-mask	TriTech+ with Anti-mask (PIR + MW)	TriTech Curtain (PIR + MW)	TriTech+ Curtain with Anti-mask (PIR + MW)						
EN50131-2-2/4	grade 2	grade 2	grade 2	grade 2	grade 2	grade 2	grade 2	grade 3	grade 2	grade 2	grade 3	grade 3	grade 2	grade 3						
Pet immunity	No	20kg	No	45kg	No	45kg	4.5kg	4.5kg	4.5kg	4.5kg	4.5kg	4.5kg	4.5kg	4.5kg						
Coverage/Range	12m x 12m	12m x 12m	12m x 12m	6m x 6m	12m x 12m	12m x 12m	15m x 15m	15m x 15m	16m x 21m	18m x 25m	16m x 21m	18m x 25m	30m x 2.6m	30m x 2.6m						
False alarm immunity	+++	++++	+++++	+++++	+++++	+++++	+++++	+++++	++++	+++++	+++	++++	++++	+++						
Catch performance	++++	+++	++++	+++	++++	+++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++						
Mounting height	2.2 to 2.75m	2.2 to 2.75m	2.2 to 2.75m	2.2 to 2.75m	2.2 to 2.75m	2.2 to 2.75m	2.3 to 2.75m	2.3 to 2.75m	2 to 3m	2 to 3m	2 to 3m	2.1 to 3m	2.1 to 3m	2.1 to 3m						
Look down zone	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes						
Application	<ul style="list-style-type: none"> <li>All Blue Line Series detectors for use in residential and small commercial applications</li> <li>Use the Quad or the TriTech models for difficult environment</li> </ul>						<ul style="list-style-type: none"> <li>Difficult* environments</li> <li>All Commercial Series detectors for use in small to medium commercial applications</li> <li>ISC-CDL1-WA15 also for use in high risk applications</li> </ul>		<ul style="list-style-type: none"> <li>Standard environments</li> <li>Medium to high risks</li> </ul>		<ul style="list-style-type: none"> <li>Difficult* environments</li> <li>Medium to high risks</li> </ul>		<ul style="list-style-type: none"> <li>Standard environments</li> <li>High risks</li> </ul>		<ul style="list-style-type: none"> <li>Difficult* environments</li> <li>High risks</li> </ul>		<ul style="list-style-type: none"> <li>Curtain version</li> <li>Difficult* environments</li> <li>Narrow and long areas</li> </ul>		<ul style="list-style-type: none"> <li>Curtain version</li> <li>Difficult* environments</li> <li>Narrow and long areas</li> </ul>	

## Ceiling mount detectors and Mounting Brackets

Description	DS936	DS938Z	DS9360	DS939	DS9370	Mounting brackets
	Type of Motion Detector	Panoramic PIR	Panoramic PIR	Panoramic TriTech (PIR + MW)	Panoramic PIR	
EN50131-2-2/4	-	grade 2	grade 2	grade 2	grade 2	
Pet immunity	No	No	No	No	No	
Coverage/Range	7.5m and 360°	18m and 360°	18m and 360°	21m and 360°	21m and 360°	
False alarm immunity	+++	+++	++++	++++	+++++	
Catch performance	+++	+++	++++	++++	+++++	
Mounting height	2 to 3.6m	2.5 to 6m	2.5 to 6m	2.4 to 7.6m	2.4 to 7.6m	
Application	<ul style="list-style-type: none"> <li>For environments where wall mount detectors are not possible</li> </ul>					<ul style="list-style-type: none"> <li>Bosch offers a range of mounting brackets for wall and ceiling mounting for all wall mount detectors</li> </ul>
	<ul style="list-style-type: none"> <li>Standard environments</li> <li>Small to medium risks</li> <li>For residential to small commercial applications</li> </ul>	<ul style="list-style-type: none"> <li>Standard environments</li> <li>Small to medium risks</li> <li>Small to large commercial applications</li> </ul>	<ul style="list-style-type: none"> <li>Difficult* environments</li> <li>Small to medium risks</li> <li>Small to large commercial applications</li> </ul>	<ul style="list-style-type: none"> <li>Standard environments</li> <li>Medium risks</li> <li>Small to large commercial applications</li> </ul>	<ul style="list-style-type: none"> <li>Difficult* environments</li> <li>Medium risks</li> <li>Small to large commercial applications</li> </ul>	

For special room conditions we can recommend one of our ceiling mount detectors:

- Large halls where detectors cannot be mounted on a wall
- Large offices with cubicles where wall mount detectors are not possible
- Small convenience stores with small shelves, where field of view is better vertical than horizontal

We do not recommend ceiling mount detectors where objects are hanging from a ceiling blocking the line-of-sight or where the ceiling is vibrating as in ceiling mounted HVAC units.

\* **Difficult environments are those which include potential false alarm sources.**

- The detector is in the same room as an air conditioning vent
- Strong drafts of cold or warm air in the room
- A fan that could be running when the system is activated
- Detector could be exposed to bright white light (car headlights, floodlights, direct sunlight etc.)
- Room which contains slow moving objects such as curtains, plants
- Room has underfloor heating
- Room temperature exceeds 30 degrees Celsius

