


BOSCH

Invented for life

IR 270 T LSNi Infrared Motion Detector, Antimask



- ▶ **Wide-angle version (standard) up to 18 m including look-down zone**
- ▶ **Long-range version (optional) up to 25 m**
- ▶ **Antimasking/tamper protection**
- ▶ **Temperature compensation**
- ▶ **Analysis of: alarm, masking, tampering, fault**
- ▶ **Alarm memory**
- ▶ **2-wire connection to LSN sufficient**
- ▶ **Antimasking**

The IR 270 T LSNi infrared motion detector is used to monitor rooms for unauthorized entry.

PIR motion detector 18 m wide-angle version with antimasking and look-down zone.

25 m long-range version with long-range mirror (optional).

Functions

The detector uses the temperature of surrounding surfaces, such as floors and walls, as the standby value. The detector is configured for optimum sensitivity and false alarm suppression. However, high temperature fluctuations on the reference surfaces should be avoided.

The sensitivity of the antimask message can be adjusted with the configuration software. You can use the functions to switch between the REAL-time antimask message and the latch antimask message.

REAL-time (non-saving): A cover is displayed as long as the detector is masked.

Latch (saving): The activated antimask message is stored until antimasking is reset.

If the detector is ripped from the mounting surface or the cover is removed, a sabotage alert is triggered.

Certifications and Approvals

Region	Certification
Germany	VdS G 106020, C IR 270 T LSNi (W)
	G 106019, C IR 270 T LSNi (V)
Europe	CE IR 270 T LSNi

Installation/Configuration Notes

IR 270 T LSNi detectors do not mutually influence each other. The detection zones may overlap.

Fixed objects represent surfaces that reduce the detection zone.

Outside the monitoring area, ceilings and walls should be mechanically stable.

In order to ensure the intrusion security of ceilings that are not mechanically stable, detectors should monitor each other.

The HIGH response sensitivity cannot be used in rooms whose sides are less than 5 m long.

Moving objects within the detection zone are not permitted.

If placed above a heating radiator, a minimum distance of 1.5 m to the radiator is necessary.

Heat sources within the detection zone cause faults.
 A minimum distance of 1 cm above the detector must be left free to allow its cover to be put in place.

Installation

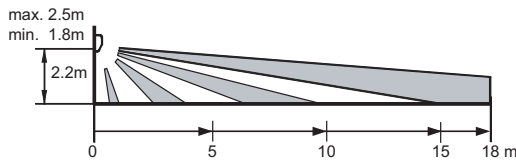
Wall, corner and 45° installation are possible without accessories.

The IR UM20 wall installation mount and IR UM30 ceiling installation mount accessories (optional) can be used to swivel the detector by ±45° and to incline it by +10°/-15°.

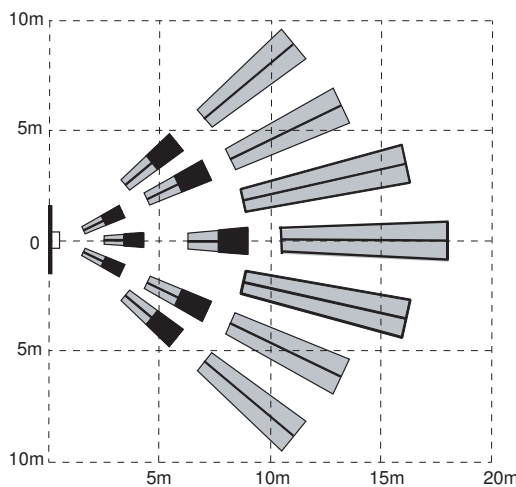
Wide-angle version

The detector reacts best to movement at right angles to the detection zones.

Side view



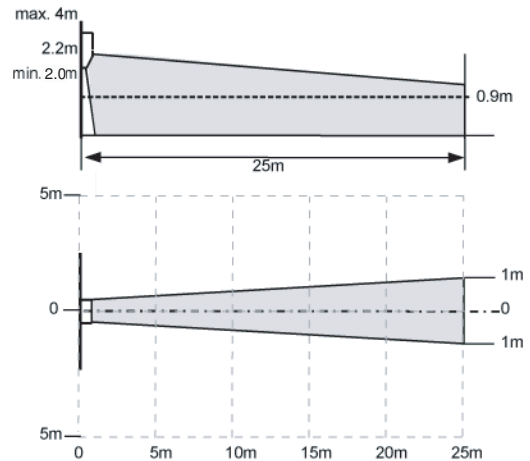
Plan view



Long-range version with IRS 272 (optional)

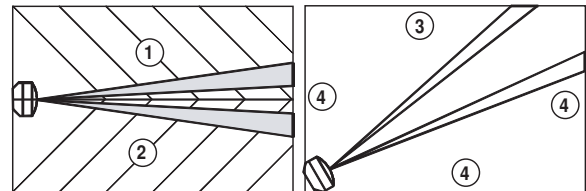
At installation heights above 3 m, the detector should point downward at an angle of 2°.

Side view/top view

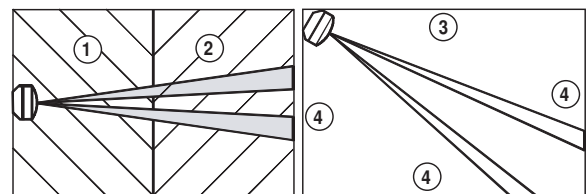


The detector requires a stable reference for the entire detection zone. The detection zone consists of two subzones (separated by the central level). The subzones cannot be referenced to different surfaces that may consist of differing materials. The middle level of a detection zone is in the detector's longitudinal axis, which is perpendicular to the installation surface (housing floor).

Not permissible:



Permissible:



- 1 Material A
- 2 Material B
- 3 Outside wall
- 4 Inside wall

Parts Included

Type	Qty.	Component
IR 270 T LSNi	1	Infrared motion detector

Technical Specifications

IR 270 T LSNi

LSN operating voltage	Max. 33 VDC
Current consumption	
• Maximum current	2.2 mA
Range	
• Wide-angle version	18 m
• Long-range version (with IRS 272)	25 m
Installation height	
• Wide-angle version	1.8 m to 2.5 m
• Long-range version (with IRS 272)	2.0 m to 4 m
Movement speeds	
• Wide-angle version	0.1 to 4.0 m/s
• Long-range mirror	0.1 to 4.0 m/s
Environmental conditions	
• Operating temperature	20 °C to +55 °C
• Storage temperature	-20 °C to +60 °C
• VdS tested environmental class II	-10 °C to +55 °C
• Humidity EN60721	< 95% relative, no dew point
• EMC strength up to 2 GHz	30 V/m
• VdS environmental class	II
Housing	
• Dimensions (H x W x D)	135.5 x 55 x 45 mm
• Housing protection category	IP41/IK02
• Weight	0.150 kg

Ordering Information

IR 270 T LSNi Infrared Motion Detector, Antimask IR270 T LSNi

For monitoring rooms for unauthorized entry, 18 m wide-angle version with antimasking and look-down zone, 25 m long-range version with long-range mirror (optional)

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
5600 JB 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 Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6258 5511
Fax: +65 6571 2698
apr.securitysystems@bosch.com
www.boschsecurity.com

Represented by