







# Intrusion

## Internal motion detectors by Siemens – Range and application overview

	IR80B	IRM80	IR100B	IR120	
					
	Easytec™	Easytec™	Swisstec	Swisstec	
<b>Applications and technologies</b>					
Applications	Residential	Residential	Residential	Residential / small commercial	sn
Environmental conditions	Quiet	Harsh	Quiet	Moderate	
Detection technology <sup>1)</sup>	PIR	PIR & MW	PIR	PIR	
Bus version				LSN	
<b>Detection range</b>					
Volume range	12 m	12 m	12 m	12 m	
Distance:	144 m <sup>2</sup>	144 m <sup>2</sup>	144 m <sup>2</sup>	144 m <sup>2</sup>	
Area:					
Curtain range	12 m	12 m	20 m	20 m	
Detection speed	0.3 ... 3.0 m/s	0.2 ... 3.0 m/s <sup>3)</sup>	0.2 ... 3.0 m/s <sup>3)</sup>	0.2 ... 3.0 m/s <sup>3)</sup>	0
<b>Features</b>					
Pet immunity up to	12 kg	12 kg	10 kg (20 kg <sup>2)</sup> )	20 kg (40 kg <sup>2)</sup> )	
Creep zone protection (look down zone)			■	■	
Tamper contact	■	■	■	■	
Back tamper			■	■	
Draught & insect protection		■	■	■	
Easy-click installation			■	■	
Antimasking (real time)					
Antiblocking (real time)					
Selectable monitoring zones					
Selective motion direction detection					
Microwave switch-off					
<b>Optics / signal analysis</b>					
Optics	Fresnel lens	Fresnel lens	Silver Triplex Mirror	Black Triplex Mirror	Bl
Number of zones			52	52	
Detection sensitivity (number of levels)	2	2	2	4	
Temperature compensation	Standard	Standard	Standard	Advanced	
Multiple stage white light suppression	2 stages	2 stages	2 stages	3 stages	
<b>Inputs / outputs</b>					
Alarm outputs	30 VDC / 100 mA / Ri 32 Ohm	30 VDC / 100 mA / Ri 45 Ohm	30 VDC / 100 mA / Ri 33 Ohm	30 VDC / 100 mA / Ri 33 Ohm	30
Alarm holding time	2..3 s	2..3 s	2..3 s	2..3 s	
Tamper output	30 VDC / 50 mA	30 VDC / 50 mA	30 VDC / 50 mA	30 VDC / 50 mA	3
<b>Technical specifications</b>					
Frequency (microwave, ultrasound, photo)		2,45 GHz (MW)			2
Recommended mounting height	Volume: Curtain:	2.0–2.4 m 1.8–2.4 m	2.0–2.4 m 1.8–2.4 m	1.8–2.6 m 1.8–4.0 m	1.8–2.6 m 1.8–4.0 m
Dimensions (H x W x D)		87 x 51 x 45 mm	87 x 51 x 45 mm	115 x 59 x 41 mm	115 x 59 x 41 mm
Supply voltage		9.0–16.0 VDC	8.0–16.0 VDC	9.0–16.0 VDC	8.0–16.0 VDC
Current consumption (typical / max.) <sup>6)</sup>		12 / 16 mA	4.5 / 18 mA	9 / 9 mA	6 / 6 mA
Operating temperature		–20 ... +55 °C	–20 ... +55 °C	–20 ... +55 °C	–20 ... +55 °C
Housing protection		IP41 / IK02	IP41 / IK02	IP41 / IK02	IP41 / IK02
<b>Approvals &amp; certifications*</b>					
EN50131-Grade		2	2	2	2
Environmental class II		■	■	■	■
VdS approval class				B	

\* For information on country specific approvals, please contact your local Siemens representative.

Siemens control panels / environments	
Sintony 60	Especially recommended for home and small offices security applications
Sintony 120	
Sintony 220	Especially recommended for ho
Sintony 410	

1) PIR: Passive Infrared; MW: Microwave; US: Ultrasound; ODS: Optical Detection System

2) With clip

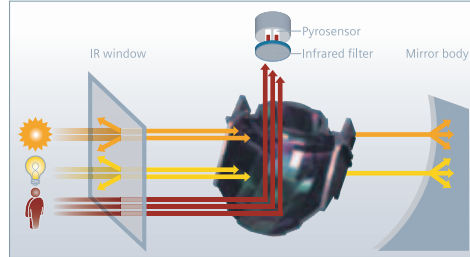




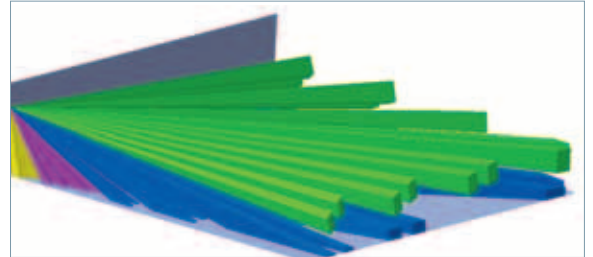
# The right technology for the right environment



Patented Black Triplex Mirror technology



Unrivalled white light immunity



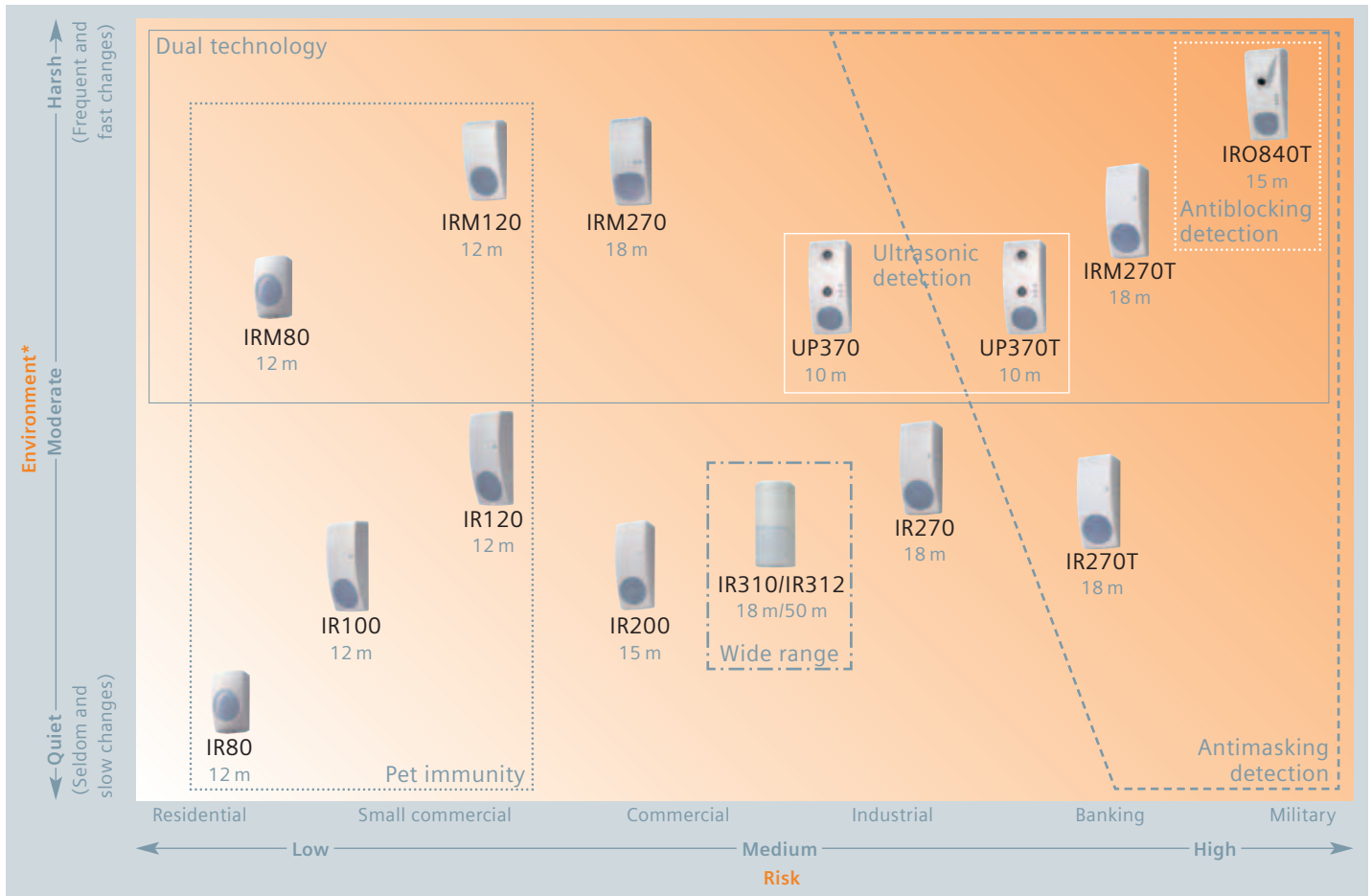
Consistent short to long range room coverage

The patented Black Triplex Mirror splits the room into a 52-zone tight grid similar to a chessboard, for outstanding detection quality and false alarm immunity.

■ The 52 sharply defined segments ensure that even small or very slow movements are reliably detected.

■ The 4x optical zoom mirror optics with adjusted focal length allow a consistent short to long range coverage of the room – as a result, objects and persons are “viewed” in their real size, regardless of their distance from the detector.

■ The black mirror coating delivers the most efficient absorption of white light, ensuring common sources of false alarms such as sunlight or car headlights are completely discarded.



\* Light, temperature & humidity conditions (e.g. lights of passing cars, sun light, fax machines, heaters, air conditioning, open windows)



# Welcome to the world of innovative thinking

## ■ Innovation

Siemens invests a great deal in both manpower and research and development. This results in a steady stream of new insights, technologies and inventions that enable us to improve the reliability of our products and systems, ensuring the securest products and making our systems even more simple and convenient to operate.

Advances in digital technologies are creating a whole new world of possibilities. Siemens is at the leading edge of progress in this field and continues to redefine both current and future technologies.

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With a history of over a hundred years, if you need an established, reliable partner you are in the very best of hands with Siemens. System expansions and upgrades can be continuously made over a period of years, which ensures your investment for the future.

## ■ Security

Siemens products and systems provide you with security. Today, tomorrow and for decades to come. That's why countless customers around the world place their trust in Siemens.



Siemens Switzerland Ltd  
Building Technologies Group  
International Headquarters  
Gubelstrasse 22  
6301 Zug  
Switzerland  
Tel +41 41 724 24 24  
Fax +41 41 724 35 22

Siemens Building Technologies  
A Division of Siemens Ltd (Australia)  
885 Mountain Hwy  
Bayswater, VIC, 3153  
Australia  
Tel +61 3 9721 2000  
Fax +61 3 9720 9966

Siemens Limited  
Building Technologies  
Units 1006-10  
10/F, China Resources Building  
26 Harbour Road  
Wanchai  
Hong Kong  
Tel +852 2870 7888  
Fax +852 2407 4457

Siemens Pte Limited  
Building Technologies  
The Siemens Center  
60 MacPherson Road  
348615  
Singapore  
Tel +65 6490 6000  
Fax +65 6490 6001

Bewator Limited  
A Siemens Business  
Brecon House  
Llantarnam Park  
Cwmbran  
NP44 3AB  
United Kingdom  
Tel +44 871 386 0800  
Fax +44 871 386 0888

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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