



Intrunet™ Wireless Portfolio for Intrunet™ SPC Series Intrunet™ SI Series and IC60

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- Comprehensive wireless portfolio for a wide range of residential and commercial applications
 - Maximum device positioning flexibility and reduced installation time thanks to reliable wireless communication
 - Seamless compatibility with the Intrunet™ SPC series, Intrunet™ SI series and IC60 intrusion systems
 - Improved aesthetics thanks to slim, discreet devices and the absence of wires
 - Proven SiWay/Si2Way wireless technology, with excellent communication range and advanced security features

The Siemens Intrunet™ wireless detectors and peripherals form a complete range of devices available for Siemens well-known intrusion control panels:

- Intrunet™ SPC Series
- Intrunet™ SI Series
- IC60.

The Intrunet™ wireless portfolio is primarily designed for residential and small commercial applications⁽¹⁾, and offers the whole benefits range from wireless systems: rapid and cost-effective device placement, improved aesthetics, and easy system control.

Secure and reliable wireless network

Intrunet™ wireless detectors and peripherals are based on the SiWay wireless protocol. SiWay is a proven, secure and reliable technology for radio communication operating in the European SRD frequency band, and offers uncompromised system security along with outstanding radio coverage. Si2Way is a bidirectional extension of the SiWay protocol, which is used for the wireless outdoor siren.

Communications between the devices and the gateway or panel are regularly monitored, and any jamming attempt on the radio system can be detected. Furthermore, it is possible for installers or users to check the battery level and radio communication quality of any detector, further increasing system performance and flexibility.

Comprehensive wireless portfolio

The Intrunet™ portfolio offers a wide variety of peripheral devices:

Detectors:

- ADM-I12W1 : Intrunet™ wireless E-line PIR motion detector
- IR160W6-10: Intrunet™ wireless PIR motion detector with black triplex mirror
- IR60W6-10 : Intrunet™ wireless PIR motion detector
- IR65W6-10 : Intrunet™ wireless ceiling PIR motion detector
- IMKW6-10 : Intrunet™ wireless door / window contact
- IGBW6-10 : Intrunet™ wireless glass break detector
- IWFW6-10 : Intrunet™ wireless flood detector
- IOPW6-11 : Intrunet™ wireless smoke detector

Remote controls and wireless keypads:

- IRCW6-11 : Intrunet™ wireless remote control with exchangeable battery
- IKPW6-10 : Intrunet™ wireless LED keypad

Actuators:

- ISRW6-12 : Intrunet™ wireless outdoor siren (only for IC60 and Intrunet™ SI Series)

Those detectors and actuators are either natively supported by Siemens panels or operated thanks to a connection device (the section "Connectivity" in this document explains those options in more details).

Fast and easy installation

Device installation and operation is very simple: after activating the addressing mode on the panel, all what is required is to press the tamper button on a detector to enroll the device into the network.

Powered by standard Lithium batteries

Intrunet™ wireless devices are powered by standard Lithium batteries (supplied with the devices), which are also available from any electronics / home appliances dealer. Besides, replacing the batteries is a very fast and simple task.

Multifunctional remote control and wireless keypad for easier system control

Besides the standard controls of a intrusion alarm panel like system full set, part set and unset, the Intrunet™ remote control offers a panic function and one configurable button for user-defined functions. The remote control can be used to either operate the entire system or a selected partition.

Appealing and modern design

Intrunet™ wireless devices are discreet and attractive to the eye thanks to a slim elegant design. Thus, they perfectly match the modern style of Siemens existing and new panel generations.

Uncompromised communication security

Intrunet™ wireless detectors and peripherals all share the same core advantages:

- Low power consumption
- Large wireless range (typically 300 m in open space environments)
- Reliable radio communication thanks to unique 24 bits ID codes for secured device authentication

⁽¹⁾ For high risk applications (such as sensitive administration buildings, corporate offices,...). Siemens also offers a full range of wired detectors fulfilling the specific security requirements of such environments.

Detection

ADM-I12W1 E-Line PIR motion detector



With a wide range of settings capabilities, the E-Line wireless PIR detector is the right choice for maximum flexibility in any residential and commercial application.

- **6 to 18 m adjustable range (12 m default)**
- **Up to 20 m continuous curtain range (optional)**
- **Two sensitivity settings (quiet / harsh environment)**
- **User selectable pet immunity (12 / 30 kg)**

Maximum flexibility: This detector is part of the E-Line PIR detectors family, and thus offers a wide range of functionalities such as selectable pet immunity, flexible continuous sensitivity adjustment and a common housing design for the whole E-Line family.

This highly sophisticated detector also ensures uncompromised detection quality thanks to high precision fresnel optics and progressive signal analysis.

IR60W6-10 PIR motion detector



This widely used PIR (passive-infrared) motion detector is equipped with a standard 12 m wide-angle Fresnel lens.

- **Sealed Sensor chamber with temperature compensation**
- **Two sensitivity settings**

Ideal for residential applications: The ergonomic and discreet design of the IR60W6-10, combined with progressive signal evaluation, ensure the suitability of this detector for the design-sensitive residential sector.

The Fresnel lens is coupled with sophisticated signal processing to guarantee secure detection capabilities, by reliably differentiating between intruders and disturbance signals.

IR160W6-10 PIR motion detector with black triplex mirror



The combination of Siemens well known black triplex mirror and low power technology guided the development of this high performance motion detector.

- **Optimum white light filter through patented black triplex mirror optics**
- **18 m wide angle detection range with look down zone or 25 m continuous curtain (optional)**
- **Automatic temperature compensation**

Outstanding immunity: A comprehensive protection concept, combining a look-down zone for crawl protection, uniform sensitivity in the "chessboard" zone pattern, and multi-criteria signal analysis, make the IR160W6-10 detector immune to environmental constraints.

This visually attractive and discreet, but feature-rich motion detector is therefore ideal for industrial and commercial environments.



IR65W6-10 Ceiling PIR motion detector

Very convenient for 360° room surveillance, this detector offers reliable intrusion detection over an extended area.

- Room surveillance with 360°/ 20 m diameter (310 m²) with hard spherical lens
- Perfect housing protection against insects and draughts
- Two sensitivity settings

Wide range detection: The IR65W6-10 ceiling detector is very convenient for large areas surveillance and in certain room configurations, where ceiling originated infra-red coverage is more efficient than wall-mounted PIR detectors. Thanks to excellent detection capabilities and sophisticated false alarm filtering, target markets include both residential and commercial premises.

Easy mounting: The functional mounting plate enables a quick and easy ceiling mounting.



IMKW6-10 Door / window contact

This wireless window contact with its slim design blends well on any kind of window frame. It offers an additional connector which can be used either to monitor an adjacent window with an external magnetic contact, or as an input module.

- Very small dimensions
- External contacts connectable through wired input (can be used as an input module)

Versatility: Any kind of device can easily be integrated into the security system through the external wired input, e.g. heating systems, fridge temperature control, oil tank level control, gas detection. This open contact allows the inclusion of already existing devices with almost no additional work into the monitoring function of your security system.



IGBW6-10 Acoustic glass break detector

The Intrunet wireless acoustic glass break detector can monitor all windows of an entire room with one device. Its excellent detection performance makes it suitable for all kind of common glass types with a detection radius of up to 6 m.

- Operating radius up to 6 m
- Compatible with tempered, laminate wired and armor-coated window glass
- Signal analysis with two sensitivity settings

Sophisticated detection capabilities: The IGBW6-10 is a highly effective acoustic off-glass wireless glass break detector with unique signal analysis based on neuronal network algorithms, offering maximum detection reliability and high false alarm immunity.

Its small size and unobtrusive housing allows the glass break detector to be mounted on walls and ceilings. The detector is also equipped with two settings for accurate adjustment to the application and environment.

IWF6-10 Water flood detector



Preventing costly damage caused by water leakage is made possible thanks to this water flood detector.

- **Sensor cable length adjustable up to 2 m**
- **Very small and compact**

Flexible and discreet: With its ergonomic and discrete design, which fits well in any environment, the flood detector is ideal for the residential market. The sealed sensor cable length can be adjusted to give the flexibility required by the application.

The detector's small dimensions facilitate its installation even in normally restricted spaces such as in bathrooms or around heating equipment.

Universal use: The external wired sensor is capable of detecting all liquids conducting electricity. It thus offers the possibility to send an alarm for immediate intervention in case of water leakage.

IOPW6-11 Smoke detector



The Intrunet™ wireless optical smoke detector is a stand-alone fire detector for residential applications, which is also wirelessly connected to the alarm system thanks to the IMSW6-10 radio module (included).

- **Coverage area of 60 m²**
- **Certified according to EN 14604:2005 and VdS**
- **Optical smoke chamber with detection algorithm**
- **Integrated sounder and test button for easy testing**
- **“Battery compartment check” feature preventing installation without batteries**
- **Housing protection against insects and drafts**

Reliable detection: An optical smoke chamber based on the “photoelectric scattered light” principle, coupled with a progressive signal evaluation, guarantees reliable detection of smoke.

Optimal functionality: An alarm triggers both optical and acoustic signals on the detector itself, and also transmits the alarm to the intrusion panel. If the intrusion system is connected to a monitoring station, early-stage fire brigade intervention is made possible. The reliability of the smoke detector makes it the right choice for residential premises, including timbered and half-timbered houses.

Signalling and Controlling

IRCW6-11 Remote control



The Intrunet™ wireless multifunctional remote control in stylish white color is smaller than a credit card and only a few millimeters thick. Besides common functions such as set, unset and part set, the remote control includes a programmable key for user-defined functions as well as an emergency function (panic alarm).

Furthermore, the Lithium CR2032 button cell battery can easily be exchanged for maximum product life duration.

IKPW6-10 Wireless LED keypad



The IKPW6-10 is a wireless keypad for SiWay enabled panels. Offering easy system setting / unsetting control, it also supports user-codes for uncompromised security.

Besides, user-defined functions can be controlled from anywhere in the premises (within communication range), thanks to the keypad dedicated commands and the panels' programmable outputs. Panic alarms are also supported.

ISRW6-12 Outdoor siren (compatible with IC60 and Intrunet™ SI Series only)



The Intrunet™ outdoor siren communicates wirelessly thanks to an extension of the SiWay protocol, named Si2Way. This communication protocol allows Si2Way components not only to send information to the control panel, but also to receive commands from the panel. The ISRW6-12 comes with an embedded Si2Way radio module and powerful standard batteries ensuring long maintenance periods; besides, the siren can also be mains-powered, using the battery as a back-up supply.

Upon activation, the alarm duration (cut-off time) can be set to two different values: either 2 min. or 15 min. In addition to the powerful acoustic signal (100 dB at 1m), an integrated light strobe flashes upon siren activation. The housing is weatherproof, making the device perfectly suitable for outdoor use, and is available in three flash colors:

- ISRW6-12T (orange)
- ISRW6-12R (red)
- ISRW6-12B (blue)

Connectivity

All Intrunet™ devices (except ISRW6-12) are supported by the following alarm systems:

- Intrunet™ SPC Series
- Intrunet™ SI Series
- IC60

However, the connection possibilities depend on the panel family as illustrated below:



Intrunet™ SPC Series:

All SiWay devices are supported on the SPC alarm panel series. There are several possibilities for connecting the wireless devices to the panels:

- SPCW110.000: SiWay RF-Kit can be integrated inside the panel
- SPCW130.100: SiWay RF Expander is connected to the X-BUS and provides a range extension for the Intrunet™ wireless detectors and remote controls linked to the system
- SPCK422.100 wired standard LCD keypad with integrated SiWay wireless module: the integrated wireless module provides a range extension for the Intrunet™ wireless detectors and remote controls linked to the system.



Please refer to the SPC panels datasheets for more information.

Intrunet™ SI Series:



All SiWay and Si2Way devices can be used with Intrunet™ SI Series panels, thanks to the IEGW6-12 SiWay / Si2Way E-Bus gateway.

This small and discreet gateway can be connected to the panel's field bus (E-Bus); one gateway can support up to 12 wireless detectors / sirens (with a maximum of 2 sirens), plus up to 7 remote controls.

The maximum number of gateways per system is panel-dependant:

- Max. 1 gateway per Sintony 1xx system
- Max. 3 gateways per Sintony 2xx or Si320DE system
- Max. 4 gateways per Sintony 4xx or Si340DE system

The IEGW6-12 comes in a standard tamper-protected SAT-12 box. Besides, it is powered directly from the E-Bus, and offers advanced wireless features such as Radio Signal Strength Indication, and jamming detection for added communication reliability.

Please refer to the IEGW6-12 installation manual for more information on compatible SI panels and firmware versions.

IC60:



IC60W-10 and IC60WA-10 panels:

Those panels support SiWay wireless connectivity by default.

However, the connection of Si2Way devices (e.g. siren) requires the addition of a Si2Way radio module inside the panel (refer to IRFW6-12 Si2Way RF module).

IC60M-8 panels:

Those panels do not support wireless connectivity by default. In order to add wireless features, a wireless module should be installed inside the panel:

- IRFW6-10 will be required to operate SiWay devices only (Si2Way devices excluded)
- IRFW6-12 should be used to operate Si2Way devices only (SiWay devices excluded).

Therefore, in order to operate both SiWay and Si2Way devices on those panels, both wireless modules should be installed inside the panel.



Compatibility matrix

		IC60				Intrunet SI series*				Intrunet SPC series		
Wireless interfaces		IC60W-10	IC60WA-10	IC60-8	IC60M-8	SI1xx	SI2xx	SI3xx	SI4xx	SPC4000	SPC5000	SPC6000
		SiWay as standard		IRFW6-10 SiWay module		IEGW6-12 Si2Way module		IEGW6-12 SiWay/Si2Way E-Bus gateway Max. number of gateways/system: 1 3 3/4 4		SPCW130 SiWay external X-BUS gateway	SPCW110 SiWay internal RF kit	SPCK422 LCD keypad with SiWay RF module
Intrusion detection	ADM-I12W1 12 m wide angle PIR detector (SiWay)	<ul style="list-style-type: none"> 6 to 18 m adjustable range (12 m default) Up to 25 m continuous curtain range (optional) User selectable pet immunity (15/25 kg) 	■	■	■	■	■	■	■	■	■	■
	IR60W6-10 12 m wide angle PIR detector (SiWay)	<ul style="list-style-type: none"> Sealed sensor chamber with temperature compensation 2 sensitivity settings 	■	■	■	■	■	■	■	■	■	■
	IR160W6-10 18 m wide angle PIR detector (SiWay)	<ul style="list-style-type: none"> Siemens patented black mirror triplex technology Look down zone or 30 m continuous curtain (optional) Optimum white light filtering Temperature compensation 	■	■	■	■	■	■	■	■	■	■
	IR65W6-10 360° ceiling PIR detector (SiWay)	<ul style="list-style-type: none"> 20m diam. or 310 m² coverage Housing protection against insects and draughts 2 sensitivity settings 	■	■	■	■	■	■	■	■	■	■
	IMKW6-10 Door/window contact (SiWay)	<ul style="list-style-type: none"> Interface for external contacts Slim design Can be used with other systems (water, heating) 	■	■	■	■	■	■	■	■	■	■
	IGBW6-10 Acoustic glass break detector (SiWay)	<ul style="list-style-type: none"> Operating radius up to 6 m For normal, tempered, laminate, wired and armour-coated glass Outstanding signal analysis (2 sensitivity settings) 	■	■	■	■	■	■	■	■	■	■
Safety	IOPW6-11 60 m ² Smoke detector (SiWay)	<ul style="list-style-type: none"> EN 14604:2005 and Vds-approved Integrated sounder and test button Optical smoke chamber with detection algorithms 	■	■	■	■	■	■	■	■	■	■
	IWF6-10 Flood detector (SiWay)	<ul style="list-style-type: none"> Sensor cable with adjustable length up to 2 m Very small and compact Low battery warning signal 	■	■	■	■	■	■	■	■	■	■
Operation	IRCW6-11 Remote control (SiWay)	<ul style="list-style-type: none"> Extremely compact and slim design Arm/disarm/part-arm functions Panic button and freely programmable key Exchangeable Lithium battery 	■	■	■	■	■	■	■	■	■	■
	IKPW6-10 LED Keypad (SiWay)	<ul style="list-style-type: none"> LED indication (error/program, low battery) Arm/disarm/stay functionality Code arming 	■	■	■	■	■	■	■	■	■	■
Signalling	ISRW6-12 Outdoor siren (Si2Way)	<ul style="list-style-type: none"> Bi-directional wireless communication User-selectable siren and flash cut-off times Tamper/tear-off protection 	■	■	■	■	■	■	■			

*The IEGW6-12 is compatible with selected Intrunet SI series panel models and firmware versions. Please contact your local sales representative for more information.

Intrunet™ SI Series – IEGW6-12 SiWay/Si2Way E-Bus gateway compatibility

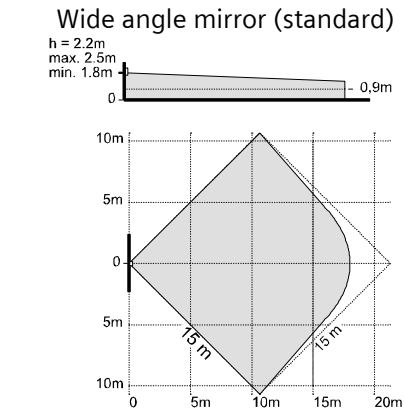
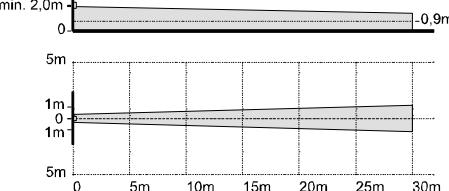
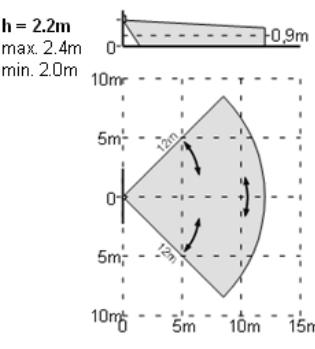
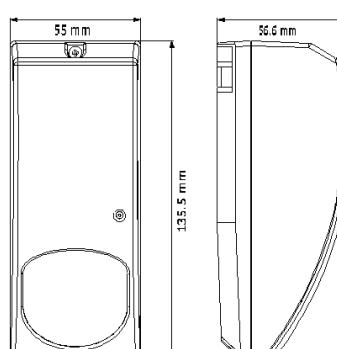
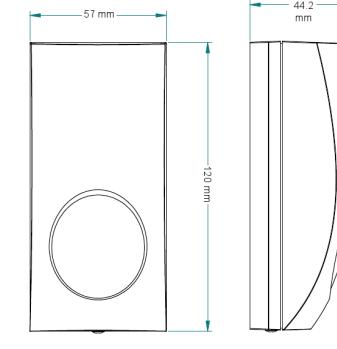
The following selection of Intrunet™ SI Series panels (with associated firmware version) is compatible with the IEGW6-12 SiWay/Si2Way E-Bus Gateway.

Compatibility with any other version which is not listed below is not guaranteed. Therefore, it is strongly recommended to use the gateway only with the material versions below; a firmware upgrade might be necessary for legacy panels with older firmware versions.

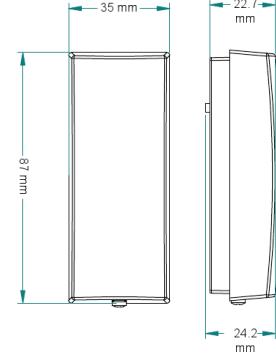
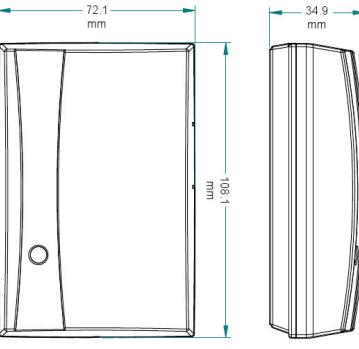
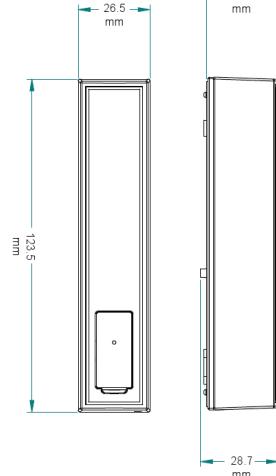
PANEL VERSION	FIRMWARE VERSIONS
SI110DE	E8-04
SI120CHD/F/I	A8-16 ⁽¹⁾
SI120DE	A8-16 ⁽¹⁾
SI120FR	A8-16 ⁽¹⁾
SI120FR-NF	A5-03
SI120IT	A5-03
SI120UK	A5-03
SI120CHD-SD	A7-16
SI120CHF-SD	A7-16
SI121ES	A8-16 ⁽¹⁾
SI152DE-Pone	E8-04
SI210DE	E8-04
SI220CHD/F/I	A8-16 ⁽¹⁾
SI220DE	A8-16 ⁽¹⁾
SI220FR	A8-16 ⁽¹⁾
SI220FR-NF	A5-03
SI220IT	A5-03
SI220UK	A5-03
SI221ES	A8-16 ⁽¹⁾
SI320DE	A7-05
SI340DE	F9-21 ⁽¹⁾
SI410FR	F9-21 ⁽¹⁾
SI410FR-NF	F5-04
SI410IT	F8-05
SI410UK	F8-05
SI411ES	F9-21 ⁽¹⁾
SI420CHD/F/I	F9-21 ⁽¹⁾
SI420DE	F9-21 ⁽¹⁾

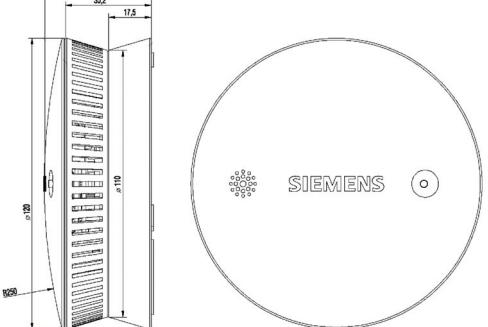
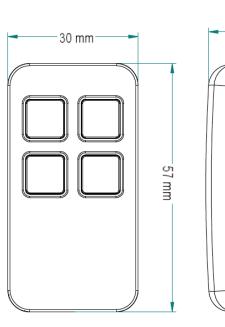
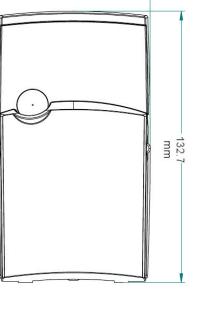
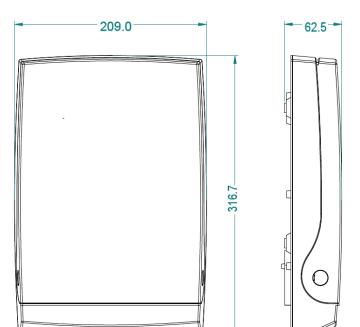
⁽¹⁾ Sintony Plus firmware

Technical data

MOTION DETECTORS	IR160W6-10	IR60W6-10
Coverage area	Wide angle: 18 m Curtain (IRS272): 25 m	Wide angle: 12 m
Settings	Sensitivity: standard / low (selectable by jumper)	Sensitivity: standard / low (selectable by switch)
Frequency Radio protocol	868.35 MHz SiWay	868.35 MHz SiWay
Event Transmission	Alarm, Tamper, Test, Supervision, Low Battery	Alarm, Tamper, Test, Supervision, Low Battery
Test mode / activation	Walk test & Alarm transmission test by tamper or external magnet activation	Walk test & Alarm transmission test by tamper or external magnet activation
Walk test auto reset	1 minute after activation	1 minute after activation
Inhibition time	Approx. 2 minutes	Approx. 2 minutes
Power management	Automatic power saver	Automatic power saver
Power consumption	Standby: 8 – 12 uA Max. 16 mA	Standby: 8 – 12 uA Max. 15 mA
Battery	Lithium 3 V, Type: xx123, Size: 2/3 AA	Lithium 3 V, Type: xx123, Size: 2/3 AA
EMI rejection up to 2 GHz	> 10 V/m	> 10 V/m
Environment conditions		
- Operating temperature	-10 to +50 °C	
- Storage temperature	-20 to +60 °C	
- Air humidity (EN60721)	< 85 % r.h., non condensing	
- Housing protection	IP41	
Housing Material	ABS – V0	ABS – V0
Security grade	Grade 2	–
Environmental class (EN 50131-5-3, EN 50131-2-2)	Class II	–
Detection pattern	<p>Wide angle mirror (standard)</p>  <p>Curtain mirror (IRS272)</p> 	<p>Wide angle lens (standard)</p> 
Dimensions		

MOTION DETECTORS	ADM-I12W1	IR65W6-10
Coverage area	Wide angle: 6 – 18 m (12 m default) Curtain: Up to 20 m	360°, 20 m Ø (310 m ²) at 3.6 m height
Settings	Sensitivity: harsh / quiet environment by switch, 10'000 lux white light filter (optional) Pet immunity: < 12 kg or < 30 kg	Sensitivity: standard / low (selectable by jumper)
Frequency Radio protocol	868.35 MHz SiWay	868.35 MHz SiWay
Event Transmission	Alarm, Tamper, Test, Supervision, Low Battery	Alarm, Tamper, Test, Supervision, Low Battery
Test mode / activation	Walk test & Alarm transmission test by tamper or external magnet activation	Walk test & alarm transmission test by external magnet activation
Walk test auto reset	1 minute after activation	2 – 3 minutes after activation
Inhibition time	Approx. 2 minutes	Approx. 2 minutes
Power management	Automatic power saver	Automatic power saver
Power consumption	Standby: 8 – 12 uA Max. 15 mA	Standby: < 12 uA Max. < 35 mA
Battery	Lithium 3 V, Type: xx123, Size: 2/3 AA	Lithium 3 V, Type: xx123, Size: 2/3 AA
EMI rejection up to 2 GHz	> 10 V/m	> 10 V/m
Environment conditions		
- Operating temperature	-10 to +50 °C	
- Storage temperature	-20 to +60 °C	
- Air humidity (EN60721)	< 85 % r.h., non condensing	
- Housing protection	IP41	
Housing Material	ABS – V0	ABS – V0
Security grade	Grade 2	–
Environmental class (EN 50131-5-3, EN 50131-2-2)	Class II	–
Detection pattern	<p>Wide angle lens (standard)</p> <p>Curtain lens (optional)</p>	
Dimensions		

DETECTORS	IMKW6-10	IGBW6-10	IWFW6-10
Characteristics	EOL resistor: 8.2 kΩ External input	Coverage area for standard window glass : 6 m radius Coverage area for armor coated window glass: 3 m radius Sensitivity settings: high / low	Sensor cable up to 2 m
Frequency Radio protocol	868.35 MHz SiWay	868.35 MHz SiWay	868.35 MHz SiWay
Event Transmission	Alarm, Tamper, Test, Supervision, Low Battery	Alarm, Tamper, Supervision, Low Battery	Alarm, Tamper, Supervision, Low Battery
Test mode / activation	-	Alarm transmission test by tamper contact or glass break simulator (GT2)	Short the water detection contacts
Power consumption	Standby: ca 5 uA Transmission: 16 mA	Standby: < 15 uA Max: < 35 mA	Standby: < 8 uA Max: < 26 mA
Battery	Lithium 3.6 V, Type: XL-050F, Size: 1/2AA	Lithium 3 V, Type: xx123, Size: 2/3AA	Lithium 3.6 V type: XL-050F, Size: 1/2 AA
EMI rejection up to 2 GHz	> 10 V/m	> 10 V/m	> 10 V/m
Environment conditions	<ul style="list-style-type: none"> - Operating temperature -10 to +50 °C - Storage temperature -20 to +60 °C - Air humidity (EN60721) < 85 % r.h., non condensing - Housing protection IP41 		
Housing Material	ABS – VO	ABS – VO	ABS – VO
Dimensions			

DETECTORS AND ACTUATORS	IOPW6-11 + IMSW6-10	IRCW6-11	IKPW6-10	ISRW6-12
Characteristics	Coverage area: 60 m ² (max. mounting high: 3 m) LED flashes once every approx. 50 s Acoustic output power: > 85 dB at 3 m distance	Wireless range: 100 m in open space	Wireless range: up to 300 m in open space	Siren output level: 100 dB at 1 m
Frequency Radio protocol	868.35 MHz SiWay	868.35 MHz SiWay	868.35 MHz SiWay	868.35 MHz Si2Way
Event transmission	Alarm, Tamper, Supervision, Low Battery	Set, Unset, Part set, Optional control, Panic	Set, Unset, Part set, Optional control, Panic, Low battery	Tamper, Supervision, Low battery
Test mode / activation	Alarm transmission test (PCB button) or self test by front test button	LED light up upon key activation	Beeps upon Set / Unset activation	Optional system Set / Unset acoustic or visual confirmation (user-selectable)
Power consumption	Standby: typically 40 µA Max. 410 mA	Standby: < 1µA Max. < 28 mA	Standby: approx. 11 µA Transmission: approx. 16 mA	External power: nom. 12 V DC (9 – 14 V DC) Note: if external power is connected, the battery shall be installed anyway
Battery	3 x Alkaline 1.5 V, type: LR6, Size: AA	Lithium 3 V – type: CR2032	Lithium: 3.6 V – type: XL-050F, Size: 1/2 AA	ER34615M 3.6 V, 14 Ah, D size
EMI rejection up to 2 GHz	> 10 V/m	> 10 V/m	> 10 V/m	> 10 V/m
Environment conditions - Operating temperature - Storage temperature - Air humidity (EN60721) - Housing protection	-10 to +50 °C -25 to +70 °C < 93 % r.h., non condensing IP30	-10 to +50 °C -20 to +60 °C < 85 % r.h., non condensing IP41	-10 to +50 °C -20 to +60 °C < 85 % r.h., non condensing IP41	-20 to +70 °C -20 to +80 °C < 95 % r.h., non condensing IP54
Housing material	ABS	ABS-HB	ABS-V0	Polycarbonate
Compliance	EN 14604:2005	–	–	–
Dimensions				

CONNECTION DEVICES	IRFW6-10	IRFW6-12	IEGW6-12
Frequency Radio protocol	868.35 MHz SiWay	868.35 MHz SiWay	868.35 MHz SiWay / Si2Way
Front end filter	SAW	SAW	SAW
Operating voltage Current consumption	7 – 15 V DC from IC60 panel Typ. 22 mA	12 V DC from IC60 panel Typ. 22 mA	9 – 16 V DC Min. 29 mA Max. 61 mA
IF bandwidth	120 kHz	120 kHz	120 kHz
Sensitivity	- 105 dBm typical	- 105 dBm typical	- 105 dBm typical
EMI rejection	> 10 V/m	> 10 V/m	> 10 V/m
Environment conditions - Operating temperature - Storage temperature - Air humidity (EN60721) - Housing protection	-10 to +50 °C -20 to +60 °C < 85 % r.h., non condensing –	-10 to +50 °C -20 to +60 °C < 85 % r.h., non condensing –	-10 to +50 °C -20 to +70 °C < 85 % r.h., non condensing IP41
Housing Material	–	–	ABS
Dimensions	Length x Width: 98 x 55 mm	Length x Width: 84 x 44 mm	Length x Width x Height: 133 x 86 x 28 mm

CONNECTION DEVICES	SPCW110.000	SPCW130.100	SPCK422.100
Frequency Radio protocol	868.35 MHz SiWay	868.35 MHz SiWay	868.35 MHz SiWay
Operating voltage Current consumption	12 V DC Min. 10 mA (12 V DC) Max. 10 mA (12 V DC)	9.5 – 14 V DC Min. 60 mA (12 V DC) Max. 60 mA (12 V DC)	9.5 – 14 V DC Min. 65 mA (12 V DC) Max. 95 mA (12 V DC)
Environment conditions - Operating temperature - Storage temperature - Air humidity (EN60721) - Housing protection	5 – 40 °C -20 to +60 °C < 90 % r.h., non condensing –	5 – 40 °C -20 to +60 °C < 90 % r.h., non condensing IP30	5 – 40 °C -20 to +60 °C < 90 % r.h., non condensing IP30
Housing Material	–	ABS	ABS
Dimensions	Length x Width x Height: 50 x 22 x 20 mm (PCB)	Length x Width x Height: 195 x 150 x 47 mm (Enclosure)	Length x Width x Height: 148 x 85 x 33 mm

Radio characteristics

	SiWay	Si2Way
Frequency	868.35 MHz	868.35 MHz
Modulation	FSK	FSK
Transmission	Unidirectional	Bidirectional
Wireless range	300 m Line-of-Sight (open range)	300 m Line-of-Sight (open range)
Identification	Unique ID code for secure device identification (24 bits)	Unique ID code for secure device identification (24 bits)

Details for ordering

Type	Article-no.	Description	Weight
ADM-I12W1	S54538-F105-A100	ADM-I12W1 Wireless PIR detector, 868 MHz	0.090 kg (incl. battery)
IR160W6-10	A5Q00013963	IR160W6-10 Wireless mirror detector, 868 MHz	0.120 kg (incl. battery)
IR60W6-10	A5Q00013959	IR60W6-10 Wireless detector, 868 MHz	0.120 kg (incl. battery)
IR65W6-10	A5Q00013965	IR65W6-10 Wireless ceiling PIR detector, 868 MHz	0.175 kg (incl. battery)
IMKW6-10	A5Q00013961	IMKW6-10 Wireless magnet contact, 868 MHz	0.040 kg (incl. battery)
IGBW6-10	A5Q00013964	IGBW6-10 Wireless glass break detector, 868 MHz	0.110 kg (incl. battery)
IOPW6-11	S54538-F101-A100	IOPW6-11 Wireless smoke detector, 868 MHz	0.160 kg (incl. battery)
IWFW6-10	A5Q00020287	IWFW6-10 Wireless flood detector, 868 MHz	0.100 kg (incl. battery)
IRCW6-11	S54543-F109-A100	IRCW6-11 Remote control with exchangeable battery	0.010 kg (incl. battery)
IKPW6-10	S54543-F107-A103	IKPW6-10 Wireless LED keypad	0.020 kg (incl. battery)
ISRW6-12B	S54538-F103-A100	ISRW6-12B Blue Wireless outdoor siren	1.000 kg (incl. battery)
ISRW6-12R	S54538-F103-A200	ISRW6-12R Red Wireless outdoor siren	1.000 kg (incl. battery)
ISRW6-12T	S54538-F103-A300	ISRW6-12T Orange Wireless outdoor siren	1.000 kg (incl. battery)
IAB0361-4	S54558-F101-A100	IAB0361-4 Bat. for ISRW6-12 w/ connect	0.120 kg
IRFW6-10	A5Q00013940	IRFW6-10 RF receiver, 868 MHz, IC60 module	0.020 kg
IRFW6-12	S54538-F104-A100	IRFW6-12 Si2Way RF module	0.020 kg
IEGW6-12	S54554-F102-A100	IEGW6-12 SiWay/Si2Way E-Bus gateway	0.100 kg
SPCW110.000	S54554-B101-A100	SPCW110.000 SiWay RF kit for panel	0.050 kg
SPCW130.100	S54554-F101-A100	SPCW130.100 SiWay RF-expander	0.340 kg
SPCK422.100	S54543-F102-A100	SPCK422.100 LCD-Keypad, 2x16 Character, RF	0.210 kg

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