

Description

The wireless motion detectors unum-X ST wls with PIR detection and unum-X DT X5/X8 wls with dual PIR and microwave technology are professional-grade wireless sensors that communicate with the lares 4.0 control panel via 868.5 MHz radio frequency. They ensure the highest level of reliability in motion detection through passive infrared (PIR), X5 and X8 microwave technology, and offer immunity to pets. They feature Tough Mod2™ technology with gold-plated components, which provides greater resistance to heat and humidity, extending the detector's lifespan.



They are equipped with a mechanical structure that allows the Fresnel lens to rotate 180°, providing two different detection ranges:

- **WIDE** (default) = sensor detection range of 12 meters with a horizontal field of view of 85° (volumetric sensor mode)
- **NARROW** = sensor detection range of 18 meters with a horizontal field of view of 5° (curtain mode)



KSI5201001.300 unum-X ST wls - Grade 2
KSI5202001.300 unum-X DT X5 wls - Grade 2
KSI5202001.301 unum-X DT X8 wls - Grade 2

From App Ksenia PRO, scan-me to download unum-X Indoor Motion Detectors Technical Documentation



Why unum-X ST and unum-X DT ?

- unum-X ST is the indoor grade 2 sensor with PIR detection, designed to offer maximum reliability in intrusion detection, and communicates with the lares 4.0 control panel via 868.5 MHz radio frequency. It allows the activation of the PET-immunity function, which reduces false alarms caused by the movement of small animals when the system is armed.
- unum-X DT is the indoor grade 2 sensor with dual technology (PIR and microwave), providing a high level of reliability in motion detection using passive infrared (PIR) and microwave, and communicates with the lares 4.0 control panel via 868.5 MHz radio frequency. It allows the activation of the PET-immunity function, which reduces false alarms caused by the movement of small animals when the system is armed.

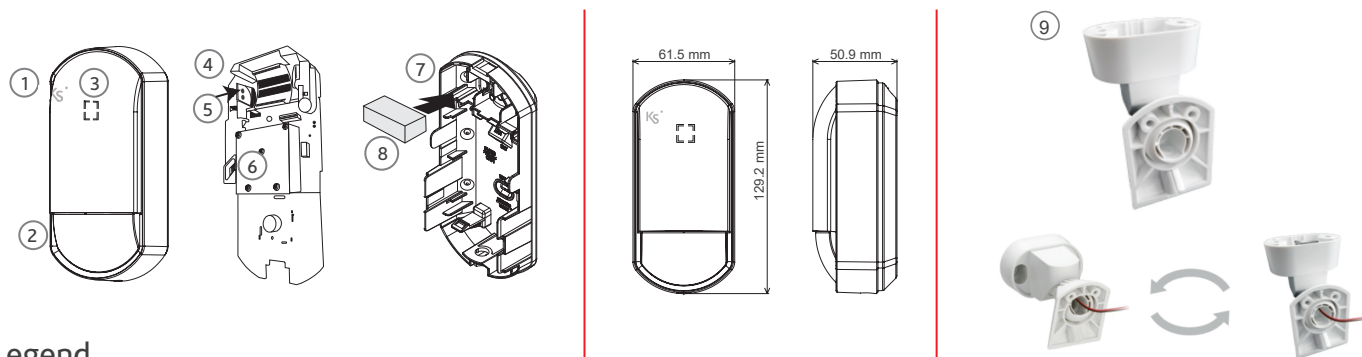
Technical Specifications

Wireless communication:	868.5 MHz
Power input:	3 V lithium battery – Panasonic CR123A recommended
Power consumption:	max 26 mA – standby 0.015 mA (unum-X ST wls) – max 50 mA (peak) – standby 0.015 mA (unum-X DT X5/X8 wls)
Battery life (*):	4 years (unum-X ST wls) – 2–3 years (unum-X DT X5/X8 wls)
Battery fault voltage:	approx. 2.5 V
Detection method:	Passive infrared (unum-X ST wls) – Passive infrared and MW (unum-X DT X5/X8 wls)
Rotatable Fresnel lens:	180° – Rotate for wide or narrow coverage
Wide coverage:	12 m 85° – Narrow: 18 m 5° (MW disabled with narrow lens)
MW frequency:	unum-X DT wls – X5: 10.525 GHz – X8: 10.587 GHz
Detectable zones:	Wide: 76 zones – Narrow: 12 zones
Detection speed:	0.3 – 2.0 m/s
Inhibition time (programmable):	from 5 to 180 seconds (for compatibility with EN 50131-1 and T031 standards)
PIR sensitivity:	1.6°C at 0.6 m/s (at 2.4 m height)
LED indicator:	Status LED – Idle: OFF – Alarm/tamper: ON – Warm-up: Flashing
Warm-up time:	approx. 60 s (flashing LED)
Installation height:	from 2 to 3 m (2.4 m recommended)
Pet immunity:	Yes (with low PIR sensitivity, up to 30 cm animal height)
Security grade:	2
Environmental class:	II
Tamper protection:	Anti-opening and anti-removal
Operating temperature:	from -10°C to +40°C
Humidity:	max 95%
Dimensions:	129.2 x 61.5 x 50.9 mm (HxWxD)
Weight:	94 g (unum-X ST wls) – 108 g (unum-X DT X5/X8 wls)
Mounting:	Indoor: wall or corner (with bracket: wall or ceiling)

(*) note: for compatibility with EN 50131-1 and T031 standard, the "Always active" parameter must be set to OFF



Physical description



Legend

- | | |
|----------------------------|---|
| 1. Outer cover | 5. Battery slot |
| 2. Adjustable Fresnel lens | 6. Microwave |
| 3. Status LED | 7. Rear bracket for wall or corner mounting |
| 4. Main electronic board | 8. Shock-absorbing and insulating foam |
| | 9. Optional joint with tamper for wall or ceiling installations (sensor tilt and rotation). |

System maximum configuration

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of wireless detectors	32	16	40	40	64	64

Certifications

KSI5201001.300 unum-X ST wls

Europe - CE, RoHS
 IMQ(*): EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020
 EN 50131-2-2:2021, EN 50131-5-3:2017
 EN 50130-4:2011 + A1:2014
 EN 50130-5:2011

Grade 2 - Class II

(*) the NARROW setting is not certified, PET immunity is not certified.

INCERT: T031:2017 + A1:2018 + A2:2022



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KSI5202001.300 unum-X DT X5 wls (wave frequency X5)

Europe - CE, RoHS
 IMQ(*): EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020
 EN 50131-2-4:2020, EN 50131-5-3:2017
 EN 50130-4:2011 + A1:2014
 EN 50130-5:2011

Grade 2 - Class II

(*) the NARROW setting is not certified, PET immunity is not certified.



How to order

KSI5201001.300 unum-X ST wls
 KSI5202001.300 unum-X DT wls (wave frequency X5)
 KSI5202001.301 unum-X DT wls (wave frequency X8)

Accessories



KSI5900006.001 - Adjustable joint with tamper for wall or ceiling installations.

KSI5202001.301 unum-X DT X8 wls (wave frequency X8)

Europe - CE, RoHS
 IMQ(*): EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020
 EN 50131-2-4:2020, EN 50131-5-3:2017
 EN 50130-4:2011 + A1:2014
 EN 50130-5:2011

Grade 2 - Class II

(*) the NARROW setting is not certified, PET immunity is not certified.

INCERT: T031:2017 + A1:2018 + A2:2022



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Technical specification, appearance, functional and other product characteristics may change without notice.