



# DigiSense

## DT Digital Detector

Model: RK415DT

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5IN2915 B

### RED Compliance Statement

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. For the CE Declaration of Conformity please refer to our website: [www.riscogroup.com](http://www.riscogroup.com)

EN50131-2-4, G2, EC2, PD6662:2017



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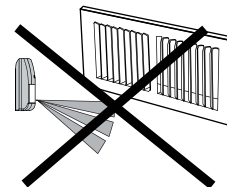
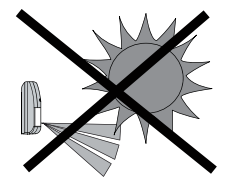
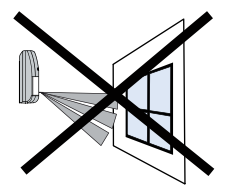
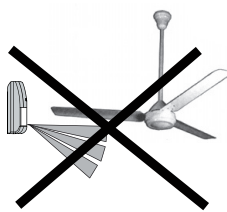
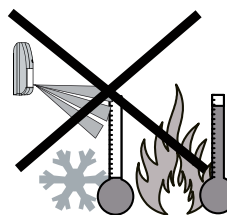
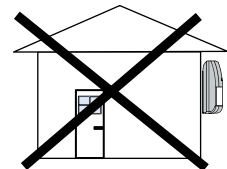
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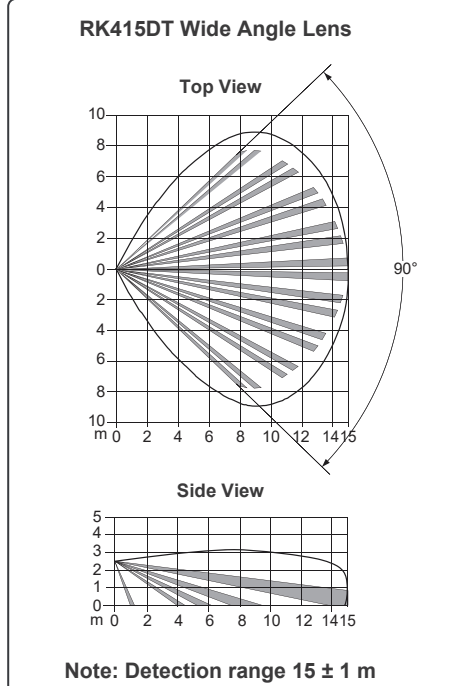
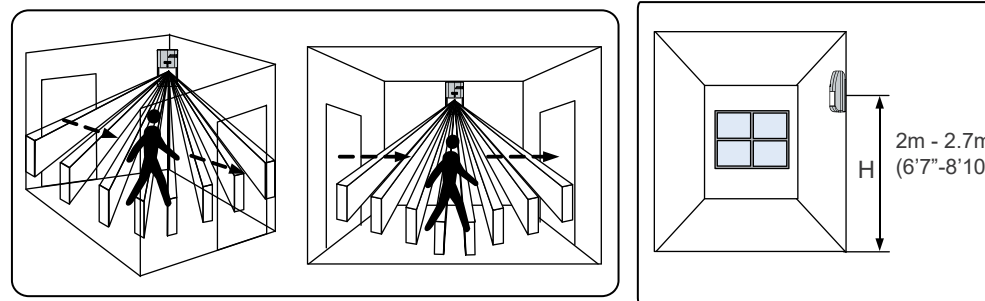
### RISCO Group Limited Warranty

RISCO Group and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 24 months from the date of production. Because Seller does not install or connect the product and because the product may be used in conjunction with products not manufactured by the Seller, Seller cannot guarantee the performance of the security system which uses this product. Seller's obligation and liability under this warranty is expressly limited to repairing and replacing, at Seller's option, within a reasonable time after the date of delivery, any product not meeting the specifications. Seller makes no other warranty, expressed or implied, and makes no warranty of merchantability or of fitness for any particular purpose. In no case shall seller be liable for any consequential or incidental damages for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Seller's obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or consequential damages or delay. Seller does not represent that its product may not be compromised or circumvented; that the product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Seller, in no event shall be liable for any direct or indirect damages or any other losses occurred due to any type of tampering, whether intentional or unintentional such as masking, painting or spraying on the lenses, mirrors or any other part of the detector. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery or fire without warning, but is not insurance or a guaranty that such event will not occur or that there will be no personal injury or property loss as a result thereof. Consequently seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, seller's maximum liability shall not exceed the purchase price of the product, which shall be complete and exclusive remedy against seller. No employee or representative of Seller is authorized to change this warranty in any way or grant any other warranty.

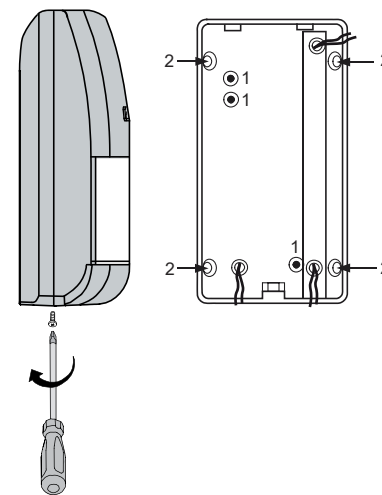
WARNING: This product should be tested at least once a week.



1



2 Mounting

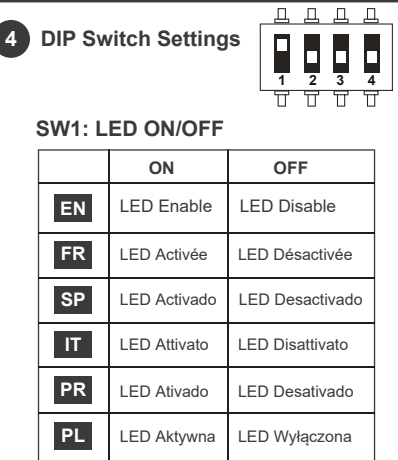


	1	2
<b>EN</b>	Wall mounting	Corner mounting
<b>FR</b>	Montage mural	Montage en coin
<b>SP</b>	Montaje en pared	Montaje en rincón
<b>IT</b>	Montaggio su parete piana	Montaggio ad angolo
<b>PR</b>	Montagem na parede	Montagem no canto
<b>PL</b>	Mocowanie do ściany	Mocowanie narożnym

3 Terminal Wiring

	TAMPER	ALARM	12VDC
<b>EN</b>	<b>Terminal Connection</b> ■ 12VDC: Power supply inputs ■ ALARM: NC Relay ■ TAMPER: NC Dry Contact switch		
<b>IT</b>	<b>Collegamento dei Morsetti</b> ■ 12VDC: Ingresso alimentazione ■ ALARM: Relé N.C. ■ TAMPER: Relè di tamper NC libero da tensione		
<b>FR</b>	<b>Connexion</b> ■ 12VDC : alimentation électrique ■ ALARM : Relais N.F. ■ TAMPER : contact sec NF d'autoprotection		
<b>PR</b>	<b>Terminais de Conexão</b> ■ 12VDC: Entrada de alimentação ■ ALARME: Relé N.F. ■ TAMPER: Relé de contato seco NC		
<b>SP</b>	<b>Bornes de Conexión</b> ■ 12VDC: Entrada de alimentación ■ ALARM: Relé N.C. ■ TAMPER: Relé de Contacto Seco N.C.		
<b>PL</b>	<b>Podłączenie</b> ■ 12VDC: Zasilanie czujki ■ ALARM: Przełącznik N.C. ■ TAMPER: Zaciski sabotażowe NC		

4 DIP Switch Settings

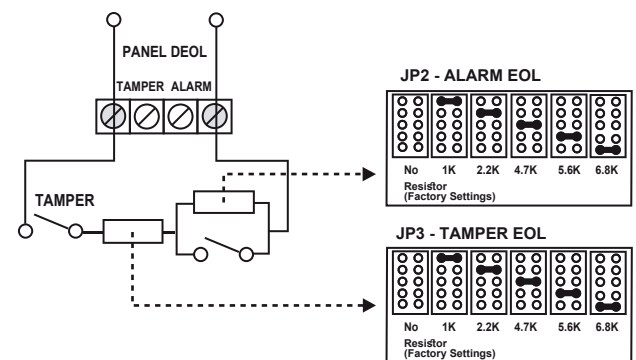


**SW2: PIR Sensitivity**

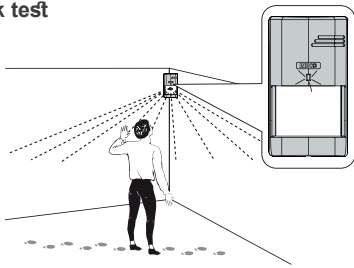
	ON	OFF
<b>EN</b>	High	Low
<b>FR</b>	Haut	Bas
<b>SP</b>	Alto	Bajo
<b>IT</b>	Alto	Basso
<b>PR</b>	Alto	Baixo
<b>PL</b>	Wysoki	Slaby

SW3, SW4: NOT USED

5 **EN** Schematic of EOL Resistors  
**FR** Schéma pour Résistances EOL (résistances de fin de ligne)  
**SP** Esquema de Resistencias de Final de Línea  
**IT** Schema di collegamento delle resistenze EOL  
**PR** Diagrama para resistor final de linha  
**PL** Rezystory parametryczne (EOL)



## 6 Walk test



### EN Walk Test

- Two minutes after applying power (warm-up period), walk test the Detector over the entire protected area to verify proper operation of the unit.
- The MW range can be adjusted by using the potentiometer located on the PCB. (See par. 7).
- It is important to set the potentiometer to the lowest possible setting that will still provide enough coverage for the inner boundary protected area.

### FR Test de Marche

- Deux minutes après avoir réalisé la mise sous tension (séquence d'initialisation), faites un test de marche pour vérifier l'efficacité du détecteur sur la totalité de la zone protégée.
- La portée HF doit être réglée à l'aide du potentiomètre situé en bas du PCB. (Voir la sec. 7)
- Il est important de régler le potentiomètre sur le niveau le plus bas possible permettant de couvrir la totalité de la surface de la zone à protéger.

### SP Prueba de Detección

- Dos minutos después de dar alimentación (periodo de calentamiento), realice la prueba de detección del Detector por toda el área protegida, a fin de verificar si la unidad está funcionando correctamente.
- El alcance del MW puede ajustarse usando el potenciómetro situado en la PCB. (Ver la sec. 7)
- Es importante ajustar el potenciómetro en la regulación más baja posible que aún proporcione la cobertura suficiente en toda el área a proteger.

### IT Prova Di Movimento

- Dopo aver atteso un periodo di riscaldamento di 2/3 minuti dall'alimentazione, effettuare la prova di copertura del rivelatore. Muoversi all'interno dell'area da proteggere e verificare che l'unità si attivi correttamente.
- La portata della microonda può essere regolata mediante il potenziometro situato nella parte inferiore della scheda elettronica. (Vedi la sez. 7)
- E' importante regolare il potenziometro al minimo e successivamente variarlo per garantire sufficiente copertura per tutta l'area da proteggere. In ogni caso il potenziometro va tenuto al valore minimo possibile.

### PR Teste De Caminhada

- Dois minutos depois ligar a alimentação (período de aquecimento), caminhe para testar o Detector através de toda a área protegida para verificar a correta operação da unidade.
- O alcance de MO pode ser ajustado usando o potenciômetro, que está localizado ao fundo do PCB. (Veja a seção 7)
- É importante colocar o potenciômetro na configuração mais baixa possível, porém que seja o suficiente para cobrir toda a área protegida.

### PL Test

- Przed rozpoczęciem testowania załóż pokrywę czujki. Włącz zasilanie czujki i odczekaj około 2 minuty, aby czujka ustabilizowała się. Przechodź po chronionej przestrzeni i obserwuj, czy dioda LED potwierdza prawidłowe działanie czujki na całym żądanym obszarze.
- Zasięg mikrofali MW może być regulowany przy pomocy potencjometru znajdującego się na płytce PCB. (Patrzec rozdział 7)
- Ważne jest, aby potencjometr ustawić na najmniejszy możliwy zasięg mikrofali gwarantujący prawidłową pracę czujki wewnątrz chronionego obszaru. Zasięg mikrofali nie może być większy niż żądany obszar chroniony.

## LEDs Display

EN	FR	SP	IT	PR	PL						
LED	Description	LED	Description	LED	Descrizione	LED	Descrição	LED	Opis		
ORANGE	Indicates PIR detection	ORANGE	Indique une détection IRP	NARANJA	Indica detección del PIR	LED ARANCIONE	Indica rivelazione canale infrarosso	O LED LARANJA	Indica detecção do IVP	POMARAŃCZA	Oznacza detekcję w kanale PIR
GREEN	Indicates MW detection	VERTE	Indique une détection HF	VERDE	Indica detección del MW	LED VERDE	Indica rivelazione canale microonda	O LED VERDE	Indica detecção no canal de MO	ZIELONY	Oznacza detekcję w kanale MW
RED	Indicates ALARM	ROUGE	Indique une alarme (détection simultanée IRP et HF)	ROJO	Indica ALARMA (detección simultánea PIR y MW)	LED ROSSO	Indica l'allarme (rivelazione simultanea del canale infrarosso e di quello microonda)	O LED VERMELHO	Indica alarme (deteccção simultânea do IVP e MO)	CZERWONY	Oznacza ALARM

## EN Technical Specifications

	RK415DT
Coverage	15m x 15m
Installation height	2-2.7m
Operating voltage	9 to 16 VDC
Current consumption	17mA at 12V
Alarm and Tamper contacts	0.1A, 24V, NC
Optical filtering	White light protection, pigmented lens
Operating temperature	-20° to +55°C
Storage temperature	-20° to +60°C
Dimensions	106 x 60 x 47mm

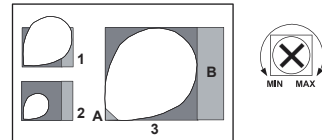
## FR Spécification techniques

	RK415DT
Couverture	15m x 15m
Hauteur d'installation	2-2.7m
Tension d'alimentation	9 à 16 VCC
Consommation électrique	17mA à 12V
Contacts d'alarme / d'autoprotection	0.1A, 24V, NC
Filtrage	Protection aux lumières blanches, lentilles pigmentées
Température de fonctionnement	-20° à +55°C
Température de stockage	-20° à +60°C
Dimensions	106 x 60 x 47mm

## SP Especificaciones Técnicas

	RK415DT
Cobertura	15m x 15m
Altura de Instalación	2 -2,7 m
Voltaje	9 a 16 Vcc
Consumo de corriente	17mA a 12V
Contactos de Alarma y Tamper	0.1A, 24V, NC
Filtro óptico	Protección luz blanca. lente pigmentada
Temperatura de funcionamiento	-20° a +55°C
Temperatura de almacenamiento	-20° a +60°C
Dimensiones	106 x 60 x 47mm

## 7 Microwave Adjustment



	1	2	3	A	B
EN	Over power	Under power	Correct adjustment according to room size	Detector	Corridor
FR	Trop puissant	Pas assez puissant	Ajustement correct pour la taille de la pièce	Détecteur	Couloir
SP	Potencia excesiva	Potencia Insuficiente	Ajuste correcto en función del tamaño de la habitación	Detector	Pasillo
IT	Troppo	Poco	Regolazione corretta in base alla dimensione della stanza	Rivelatore	Corridoio
PR	Alto Alcance	Baixo Alcance	Ajuste Correto de acordo com o tamanho do quarto	Detector	Corredor
PL	Ustawiony zbyt duży zasięg mikrofali	Ustawiony zbyt mały zasięg mikrofali	Ustawienie zasięgu mikrofali odpowiednie do wielkości pomieszczenia	Czujka	Korytarz

## IT Specifiche Tecniche

	RK415DT
Copertura	15m x 15m
Altezza di Installazione	da 2.0 a 2.7m
Tensione nominale di alimentazione	da 9 a 16 Vcc
Assorbimento massimo di corrente	17mA a 12V
Contatti d'allarme / tamper	0.1A, 24V, NC
Filtro Ottico	Lenti pigmentate, protezione luci bianche
Temperatura di funzionamento	da -20° a 55°C
Temperatura di stoccaggio	da -20° a 60°C
Dimensioni	106 x 60 x 47mm

## PR Especificações Técnicas

	RK415DT
Cobertura	15m x 15m
Altura de instalação	2-2.7m
Tensão de operação	9 até 16 VDC
Consumo de corrente	17mA em 12V
Contatos de alarme / Tamper	NC ,24V ,0.1A
Filtragem	Lentes pigmentadas para Proteção contra luz branca
Temperatura operacional	-20° to + 55°C
Temperatura de armazenamento	-20° to + 60°C
Dimensões	106 x 60 x 47mm

## PL Specyfikacja Techniczna

	RK415DT
Zasięg	15m x 15m
Wysokość instalacji	2-2.7m
Zakres napięć zasilających	9 do 16 VDC
Podór prądu	17mA przy 12V
Zaciski ALARM i TAMPER	0.1A, 24V, NC
Filtr optyczny	Filtr światła białego, barwiona soczewka
Temperatura pracy	-20° to +55°C
Temperatura składowania	-20° to +60°C
Wymiary	106 x 60 x 47mm

## Ordering part numbers

Part / Model number	Description
RK415DT	DigiSense DT 15m
RA900000000A	DigiSense ceiling swivel
RA910000000A	DigiSense wall/corner swivel