

# DigiSense

## DigiSense DT Or Logic Models: Digi-415DTAM



**RISCO**  
GROUP  
Creating Security Solutions.  
*With Care.*  
riscogroup.com

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### RISCO Group Limited Warranty

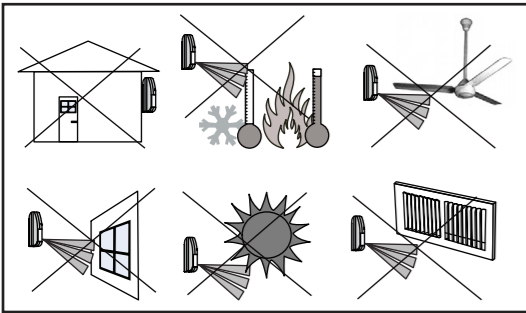
RISCO Group and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 24 months from the date of production. Because Seller does not install or connect the product and because the product may be used in conjunction with 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. 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.

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5IN1033 D



### RTTE Compliance Statement

Risco Ltd. hereby declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For the CE Declaration of Conformity please refer to our website: [www.riscogroup.com](http://www.riscogroup.com)



### Digi-415DTAM applicable countries (European version):

AT	BE	CY	DK	DK
EE	FR	FR	DE	GR
HU	IE	IT	LV	LT
LU	MT	NL	PL	PT
SE	SL	ES	SK	DE
BG	RO			

### Livello di prestazione: I° o II° Livello IMQ

**Nota:** Per le installazioni con snodo RA91T viene garantito il I° livello di prestazione IMQ. Se si utilizzano gli snodi RA90 o RA91 viene garantito il I° livello di prestazione IMQ.

### Digi-Sense FCC compliance Section (US version): FCC Part 15 Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.

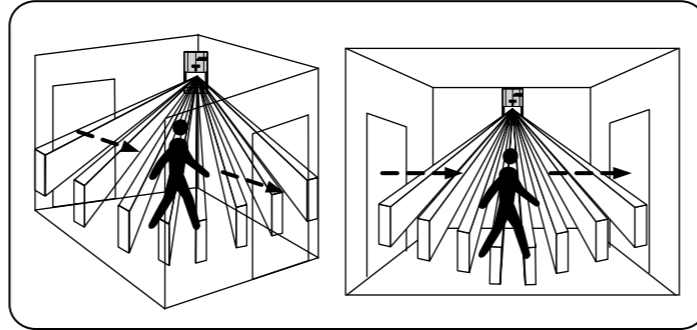
### FCC Warning:

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

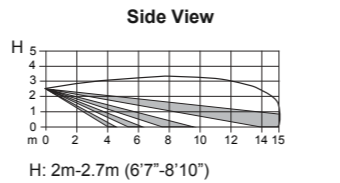
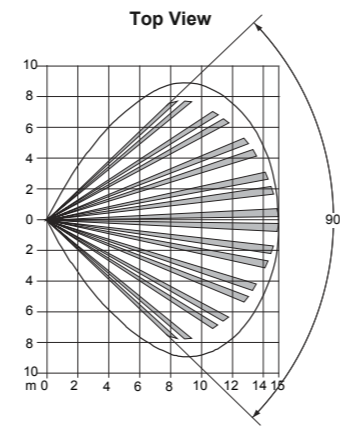
### FCC ID: JE4CSMDT

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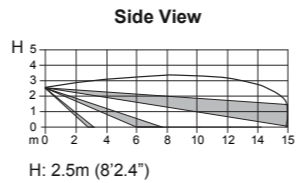
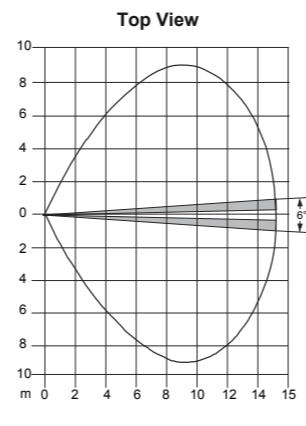
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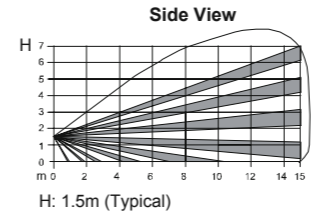
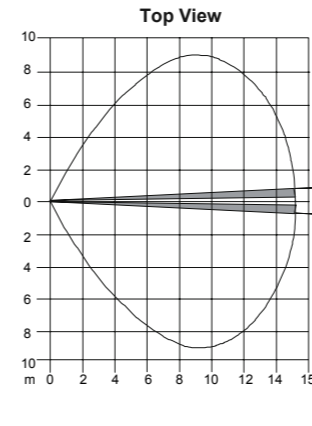
### Digi-415DTAM Wide Angle Lens



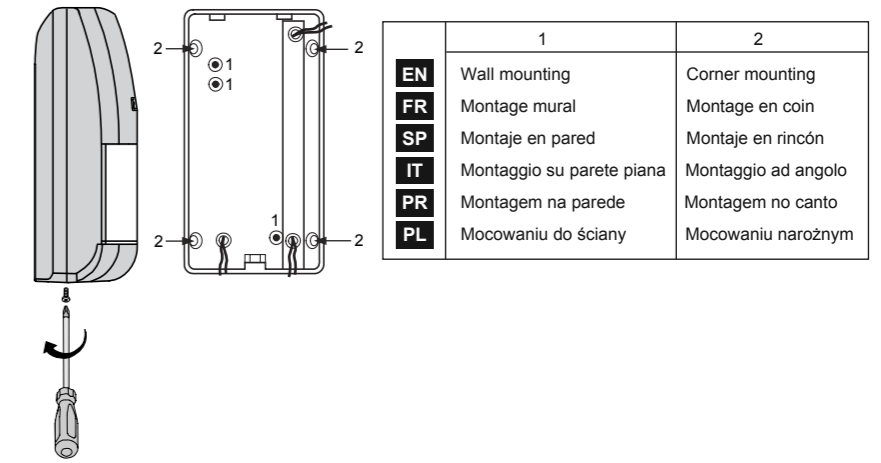
### Digi-415DTAM Corridor Lens (LLPL02)



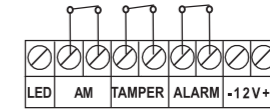
### DT 41506 Curtain (LLPL03)



2 Mounting



3 Terminal Wiring



**EN**

### Terminal Connection

- 12VDC: Power supply inputs
- ALARM: NC Dry Contact switch
- TAMPER: NC Dry Contact switch
- AM: N.C. Relay
- LED: 12VDC activated input. LED is enabled if it is not connected or the GND is applied. The LED is disabled if 12VDC is applied.

**IT**

### Collegamento dei Morsetti

- 12VDC: Ingresso alimentazione
- ALARM: Relè d'allarme NC libero da tensione
- TAMPER: Relè di tamper NC libero da tensione
- AM: Relè N.C.
- LED: morsetto usato per controllare da remoto il LED. Il LED è abilitato se non viene collegato niente o se è applicata una tensione 12Vcc. Il LED è disabilitato se viene applicato un riferimento negativo di alimentazione 0V.

**FR**

### Connexion

- 12VDC: alimentation électrique
- ALARM: contact sec NF d'alarme
- TAMPER: contact sec NF d'autoprotection
- AM: Relais NF., 24VCC, 0,1A
- LED: Entrée activée par 12VDC. La LED est active si l'entrée est non connectée ou si connectée à la masse. La LED est désactivée si 12VDC est appliqué à l'entrée.

**PR**

### Terminais de Conexão

- 12VDC: Entrada de alimentação
- ALARME: Relé de contato seco NF
- TAMPER: Relé de contato seco NF
- AM: Relé N.F.
- LED: Entrada 12 VDC ativada. LED é habilitado se GND é aplicado ou se nada estiver conectado neste terminal.

**SP**

### Bornes de Conexión

- 12VDC: Entrada de alimentación
- ALARM: Relé de Contacto Seco N.C.
- TAMPER: Relé de Contacto Seco N.C.
- AM: Relé N.C.
- LED: entrada de activación 12 Vcc. El LED está activado si no hay nada conectado al terminal o se conecta a tierra (GND). El LED se desactiva si se aplican 12 Vcc.

**PL**

### Przyłącza

- 12VDC: Zasilanie czujki
- ALARM: Zacziski alarmowe NC
- TAMPER: Zacziski sabotazowe NC
- AM: Przekaznik N.C.
- LED: wejście aktywujące. LED aktywny gdy wejście jest otwarte lub podłączone do 0V (GND). LED nieaktywny gdy wejście podłączone jest do +12VDC.

4 DIP Switch & Jumper Settings

**EN**

<b>LED (J7)</b>	Determines the operation of the detector's LEDs.
	Enable: LED enabled and behaves according to the LED terminals wiring.
	Disable: LED disabled
<b>AND/OR (J1)</b>	Determine the detector's logic of defining an alarm.
	Alarm is activated when both PIR and MW channels detect an alarm (AND Logic)
	An alarm is activated when either PIR or MW channels detect an alarm (OR Logic)
<b>SENS (J2)</b>	<b>PIR Sensitivity</b> Defines the PIR sensitivity of the detector
	Low
	High
<b>AM (J3)</b>	Defines the operation of Anti Masking detection
	Enabled
	Disabled

**FR**

<b>LED (J7)</b>	Définit le mode de fonctionnement des LEDs
	Actif : LED activée et se comporte selon l'arrangement du câblage des bornes LED
	Désactivé : LED désactivée
<b>AND/OR (J1)</b>	<b>LOGIQUE d'alarme</b> Détermine la logique suivant laquelle le détecteur définira une alarme.
	L'alarme est déclenchée quand les deux canaux IRP et HF lancent une alerte (ET Logique).
	L'alarme est déclenchée quand l'un des deux canaux IRP ou HF lance une alerte (OU Logique).
<b>SENS (J2)</b>	<b>Sensibilité IRP</b> Définit le degré de sensibilité IRP du détecteur
	Faible
	Elevé
<b>AM (J3)</b>	Définit le fonctionnement de la détection Anti-Masque.
	Activé
	Désactivé

**SP**

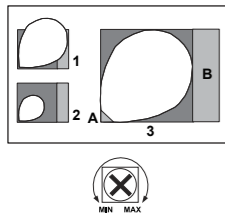
<b>LED (J7)</b>	Define el modo de funcionamiento de los LEDs
	Activado: el LED está activado y se comporta según el cableado del terminal LED.
	Desactivado: el LED está desactivado
<b>AND/OR (J1)</b>	<b>Lógica de Alarma</b> Determina la lógica del detector para definir una alarma.
	La alarma se activa cuando ambos canales PIR y MW detectan una alarma (Lógica Y (AND))
	Se activa una alarma cuando los canales PIR o MW detectan una alarma (Lógica O (OR))
<b>SENS (J2)</b>	<b>Sensibilidad PIR</b> Define la sensibilidad PIR del detector
	Baja
	Alta
<b>AM (J3)</b>	Define el funcionamiento de la detección del Anti-Masking
	Habilitado
	Deshabilitado

<b>IT</b>	<b>LED (J7)</b>	Determina il modo di funzionamento dei LED
		LED abilitati: Tensione +12V presente o morsetto non connesso
		LED disabilitati: 0V presente all'ingresso
<b>AND/OR (J1)</b>	<b>Logica allarme</b>	Imposta la logica di funzionamento per l'attivazione dell'allarme
		L'allarme viene attivato solo se entrambe le tecnologie di rilevazione PIR e MW rilevano l'intruso (logica AND).
		L'allarme viene attivato quando o la tecnologia PIR o quella MW rileva un intruso (logica OR).
<b>SENS (J2)</b>	<b>Sensibilità PIR</b>	Configura la sensibilità del PIR del rivelatore
		Bassa
		Alta
<b>AM (J3)</b>	<b>Anti-Mascheramento</b>	Determina il modo di funzionamento del Anti-Mascheramento
		Abilitato
		Disabilitato

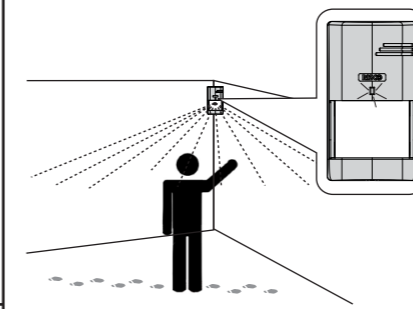
<b>PR</b>	<b>LED (J7)</b>	Habilita/desabilita a operação dos LED's
		Habilitado: LED habilitado, se comporta de acordo com comando no terminal de LED.
		Desabilitar: Conectar 0V no terminal
<b>AND/OR (J1)</b>	<b>Lógica de Alarme</b>	Determina a lógica de alarme do detector
		O Alarme é ativado quando ambos os canais de IVP e Microondas detectam um alarme (Lógica E (AND))
		Um alarme é ativado quando qualquer canal, IVP ou Microondas detecta (Lógica OU (OR))
<b>SENS (J2)</b>	<b>Sensibilidade do IVP</b>	Define a sensibilidade do Detector
		Baixa
		Alta
<b>AM (J3)</b>	<b>Anti-Mascheramento</b>	Habilita/desabilita a detecção de anti-masqueramento.
		Habilitado
		Desabilitado

<b>PL</b>	<b>LED (J7)</b>	Wybór trybu pracy diod LED
		Włączone: LED jest aktywny i działa zgodnie z okablowaniem wejścia LED
		Wyłączone: LED nie jest aktywny
<b>AND/OR (J1)</b>	<b>Logika pracy detektora (definicja alarmu)</b>	
		Alarm zostanie wygenerowany jeżeli obie technologie (PIR i MW) stwierdzą naruszenie strefy dozoru (Logika AND)
		Alarm zostanie wygenerowany jeżeli dowolna technologia (PIR lub MW) wykryje naruszenie strefy dozoru (Logika OR)
<b>SENS (J2)</b>	<b>Definiowanie czułości detektora PIR</b>	
		Niska
		Wysoka
<b>AM (J3)</b>	<b>Opcja antymaskingu</b>	
		Załączona
		Wyłączona

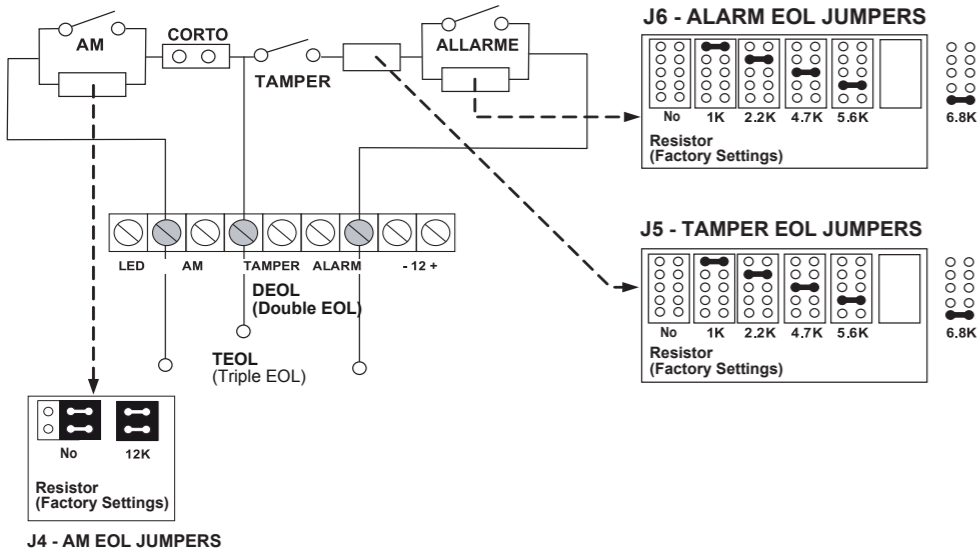
### 6 Microwave Adjustment



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



### 7 Schematic of EOL Resistors



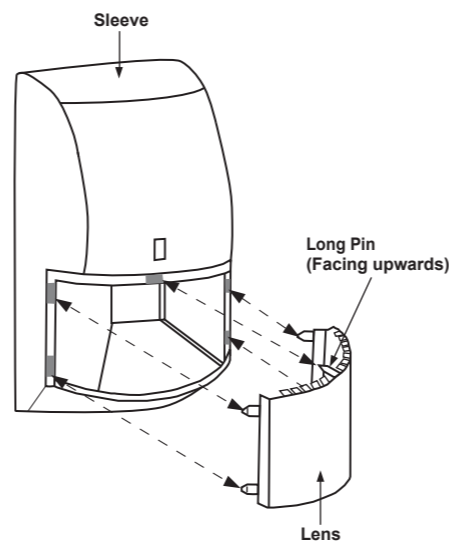
### IT Schema di collegamento delle resistenze EOL

**PR** Diagrama para resistor final de linha  
**PL** Rezystory parametryczne (EOL)

### 8 Replacing Lenses

**FR** Changement de lentille  
**SP** Cambio de las Lentes

**IT** Sostituzione delle lenti  
**PR** Trocando as lentes  
**PL** Wymiana Soczewek



### EN Technical Specifications

	415DTAM
Coverage	15m x 15m
Installation height	2-2.7m
Operating voltage	9 to 16 VDC
Current consumption	12mA at 12V
Alarm, Tamper and AM contacts	0.1A, 24V, NC
Optical filtering	White light protection, pigmented lens
Operating temperature	-10° to +40°C
Storage temperature	-20° to +55°C
Dimensions	106 x 60 x 47mm

### FR Spécification techniques

	415DTAM
Couverture	15m x 15m
Hauteur d'installation	2-2.7m
Tension d'alimentation	9 à 16 VCC
Consommation électrique	12mA à 12V
Contacts d'alarme / d'autoprotection	0.1A, 24V, NC
Filtrage	Protection aux lumières blanches, lentilles pigmentées
Température de fonctionnement	-10° à +40°C
Température de stockage	-20° à +55°C
Dimensions	106 x 60 x 47mm

### IT Specifiche Tecniche

	415DTAM
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	18mA a 12V
Contatti d'allarme / tamper	0.1A, 24V, NC
Filtro Ottico	Lenti pigmentate, protezione luci bianche
Temperatura di funzionamento	da -10° a 40°C
Temperatura di stoccaggio	da -20° a 55°C
Dimensioni	106 x 60 x 47mm

### PR Especificações Técnicas

	415DTAM
Cobertura	15m x 15m
Altura de instalação	2-2.7m
Tensão de operação	9 até 16 VDC
Consumo de corrente	12mA em 12V
Contatos de alarme / Tamper	NC ,24V ,0.1A
Filtragem	Lentes pigmentadas para Proteção contra luz branca
Temperatura operacional	-10° to +40°C
Temperatura de armazenamento	-20° to +55°C
Dimensões	106 x 60 x 47mm

### SP Especificaciones Técnicas

	415DTAM
Cobertura	15m x 15m
Altura de Instalación	2 -2.7 m
Voltaje	9 a 16 Vcc
Consumo de corriente	12mA a 12V
Contactos de Alarma y Tamper	0.1A, 24V, NC
Filtro óptico	Protección luz blanca, lente pigmentada
Temperatura de funcionamiento	-10° a +40°C
Temperatura de almacenamiento	-20° a +55°C
Dimensiones	106 x 60 x 47mm

### PL Specyfikacja Techniczna

	415DTAM
Zasięg	15m x 15m
Wysokość instalacji	2-2.7m
Zakres napięć zasilających	9 do 16 VDC
Podór prądu	12mA przy 12V
Zaciski ALARM i TAMPER	0.1A, 24V, NC
Filtr optyczny	Filtr światła białego, barwiona soczewka
Temperatura pracy	-10° to +40°C
Temperatura składowania	-20° to +55°C
Wymiary	106 x 60 x 47mm

### LEDs Display

EN	FR	SP	IT	PR	PL
<b>LED</b>	<b>LED</b>	<b>LED</b>	<b>LED</b>	<b>LED</b>	<b>LED</b>
<b>Description</b>	<b>Description</b>	<b>Description</b>	<b>Descrizione</b>	<b>Descrição</b>	<b>Opis</b>
ORANGE	ORANGE	NARANJA	LED ARANCIONE	O LED LARANJA	POMARAŃCZA
Indicates PIR detection	Indique une détection IRP	Indica detección del PIR	Indica rivelazione canale infrarosso	Indica detecção do IVP	Oznacza detekcję w kanale PIR
GREEN	VERTE	VERDE	LED VERDE	O LED VERDE	ZIELONY
Indicates MW detection	Indique une détection HF	Indica detección del MW	Indica rivelazione canale microonda	Indica detecção no canal de MO	Oznacza detekcję w kanale MW
RED	ROUGE	ROJO	LED ROSSO	O LED VERMELHO	CZERWONY
Indicates ALARM	Indique une alarme (détection simultanée IRP et HF)	Indica ALARMA (detección simultánea PIR y MW)	Indica l'allarme (rivelazione simultanea del canale infrarosso e di quello microonda)	Indica alarme (detección simultânea do IVP e MO)	Oznacza ALARMA
All LEDs Flashing (consecutively)	Toutes diodes LED Clignotante (l'une après l'autre)	Todos los LEDs Parpadeando (consecutivamente)	Tutti i LED Lampeggianti (consecutivamente)	Todos los LEDs Piscado (sucessivamente)	Wszystkie diody LED Miganie (po kolei)
At power-up, the LEDs will flash consecutively until the end of the warm-up period (2-3 minutes).	Lors de la mise sous tension, les diodes LED clignotent de manière ininterrompue, l'une après l'autre, jusqu'à la fin de la séquence d'initialisation (2 à 3 minutes).	Al dar alimentación, los LEDs parpadearán consecutivamente hasta que finalice el periodo de calentamiento (2-3 minutos).	All'alimentazione tutti i LED lampeggiano in sequenza fino alla fine del periodo di preriscaldamento (2-3 minuti).	Ao conectar, os LEDs piscarão consecutivamente até o final do período de aquecimento (2-3 minutos).	Po załączeniu zasilania wszystkie diody LED będą kolejno migać, aż do zakończenia procesu stabilizacji (2-3 minuty).