

**ENGLISH**

**Jumper Settings**

Set jumper in position corresponding to the desired pulse count (fig. 11)  
For Long range lens use pulse count 1 only.

**Changing Lenses**

Lift protective sleeve (fig. 12)  
Slide lens out (fig. 13)  
Reverse the procedure to insert new lens

**Walk Test**

Replace front cover  
Apply power and wait until stabilized (> 2 minutes)  
Walk through protected area (fig. 14)  
Observe LED, confirm detection coverage  
Adjust swivel if necessary. When completed tighten the screw

risco-group.com



**ZODIAC<sup>TM</sup>**

**RK-410PR, RK-410PRL**



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**Residential PIR Motion Detector  
INSTALLATION INSTRUCTIONS**

© RISCO Group 04/2018 **CE** 5IN410PR H

**SPECIFICATIONS**

**OPERATING VOLTAGE:** 9 to 16 V<sub>DC</sub> \*  
**CURRENT:** 12mA at 12 V.  
**ALARM CONTACTS:** 0.1 amps, 24V<sub>DC</sub>, NC  
**TAMPER CONTACTS:** 0.1 amps, 24V<sub>DC</sub>, NC  
**SIZE:** 10.7X5.8X3.9 cm (4.2X2.3X1.5 in.) (without swivel)  
**SWIVEL ADJUSTMENT:** Horizontal: ± 25°  
Vertical: + 5°, -20°  
**OPTICAL FILTERING:** White light protection, pigmented lens \*\*:\*  
**OPERATING TEMPERATURE:** -10 TO +50 C (+14 TO +122 F)  
**STORAGE TEMPERATURE:** -20 TO +55 C (-4 TO +131 F)  
\*Power to be supplied by 5A max. power source using safety approved wires, with a min. Gauge of 20AWG  
\*\*:\*Not Verified by UL  
Specifications are subject to change without prior notice. Should any questions arise, contact your distributor.

**FRANÇAIS**

**Positionnement Des Cavaliers**

Placez le cavalier dans la position correspondant au nombre d'impulsions souhaité (fig. 11)  
Avec la lentille Longue Portée, utilisez le comptage à 1 impulsion.

**Changement De La Lentille**

Soulevez la protection du capteur située dans le

couvercle. (fig. 12)  
Faites glisser la lentille en dehors de ses encoches. (fig. 13)  
Et inversez la procédure pour mettre une nouvelle lentille.

**Test De Passage**

Refermez le couvercle du détecteur.

Alimentez le détecteur et attendez 2 minutes qu'il se stabilise. (fig. 14)  
Marchez en divers endroits de la zone protégée.  
Observez la LED qui confirme la détection de couverture.  
Ajustez la rotule si nécessaire, et une fois les tests terminés, resserrez bien la vis qui maintient la rotule.

**ESPAÑOL**

**Colocación De Puentes**

Colocar el puente en la posición correspondiente al contado de pulsos deseado (fig. 11)  
Para lentes de largo alcance, utilizar contado de pulsos en la posición 1.

**Cambio De Lentes**

Levantar la cubierta protectora (fig. 12)  
Deslizar la lente hacia afuera (fig. 13)  
Invertir el procedimiento para insertar la lente nueva

**Prueba De Marcha**

Montar la cubierta  
Energizar el detector y aguardar a que la unidad se estabilice (por lo menos dos minutos). (fig. 14)  
Caminar en el área protegida.  
Observar el LED para confirmar la cobertura.  
Ajustar el ángulo de giro si esto fuera necesario. Una vez finalizado el ajuste, fijar el tornillo

**ITALIANO**

**Regolazioni del Ponticello**

Settare il ponticello sulla posizione corrispondente al conteggio d'impulso desiderato (fig. 11)  
Utilizzate solo il Conteggio d'impulso 1 con la lente di lunga portata.

**Sostituzione delle Lenti**

Sollevate la mascherina di protezione (fig. 12)  
Fate scivolare la lente per poterla estrarre. (fig. 13)  
Effettuate la procedura contraria per inserire la nuova lente.

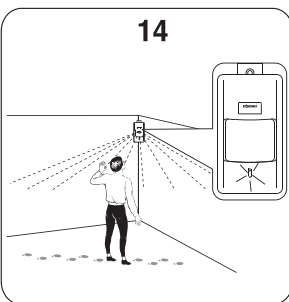
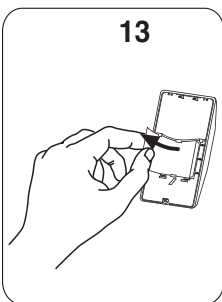
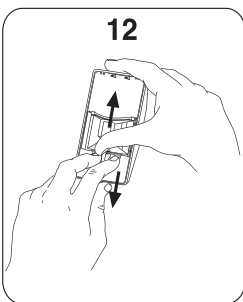
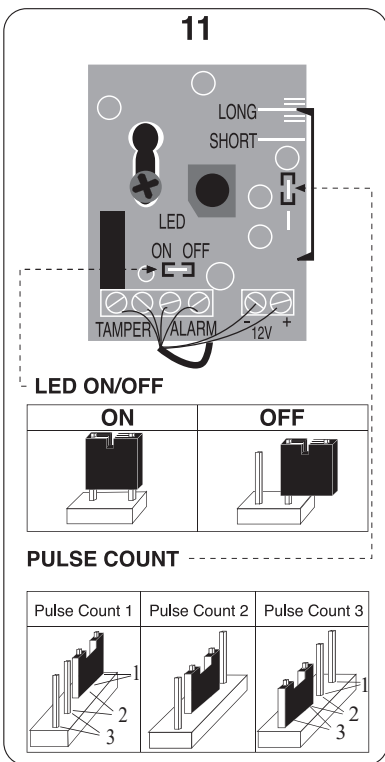
**Prova di Movimento**

Riposizionate il coperchio frontale.  
Alimentate il sensore ed aspettate almeno 2 minuti (periodo di riscaldamento) (fig. 14)  
Camminate nell'area protetta.  
Osservate il LED per avere la conferma che l'area è coperta dal sensore.  
Regolate lo snodo se necessario.  
Dopo aver completato l'operazione, serrate la vite di fissaggio.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and  
(2) This device must accept any interference received, including interference that may cause undesired operation.  
Changes or modifications to this equipment which are not expressly approved by the party responsible for compliance (RISCO Group's) could void the user's authority to operate the equipment.

**FCC 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 on and off, 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 the receiver.  
• Connect the equipment into an outlet on a different circuit from that to which the receiver is connected.  
• Consult the dealer or an experienced radio/TV technician for help.

**EMC Compliance Statement:**  
Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU. For the CE Declaration of Conformity please refer to our website: www.risco-group.com.



**STANDARD LIMITED PRODUCT WARRANTY**

RISCO Ltd., its subsidiaries and affiliates ("RISCO") guarantee RISCO's hardware products to be free from defects in materials and workmanship when used and stored under normal conditions and in accordance with the instructions for use supplied by RISCO, for a period of (i) 24 months from the date of connection to the RISCO Cloud (for cloud connected products) or (ii) 24 months from production (for other products which are non-cloud connected), as the case may be (each, the "Product Warranty Period", respectively). Contact with customers only. This Product Warranty is solely for the benefit of the customer who purchased the product directly from RISCO, or from any authorized distributor of RISCO. Nothing in this Warranty obligates RISCO to accept product returns directly from end users that purchased the products for their own use from RISCO's customer or from any installer of RISCO, or otherwise provide warranty or other services to any such end user. RISCO customer shall handle all interactions with its end users in connection with the Warranty, inter alia regarding the Warranty. RISCO's customer shall make no warranties, representations, guarantees or statements to its customers or other third parties that suggest that RISCO has any warranty or service obligation to, or any contractual privity with, any recipient of a product. Return Material Authorization. In the event that a material defect in a product shall be discovered and reported during the Product Warranty Period, RISCO shall, at its option, and at customer's expense, either: (i) accept return of the defective Product and repair or have repaired the defective Product, or (ii) accept return of the defective Product and provide a replacement product to the customer. The customer must obtain a Return Material Authorization ("RMA") number from RISCO prior to returning any Product to RISCO. 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RISCO's obligation and the Warranty are contingent upon the full payment by customer for such Product and upon a proven weekly testing and examination of the product functionality. Limitations. The Product Warranty is the only warranty made by RISCO with respect to the Products. The warranty is not transferable to a third party. To the maximum extent permitted by applicable law, the Product Warranty does not apply and will be void if: (i) the conditions set forth above are not met (including, but not limited to, full payment by customer for the product and a proven weekly testing and examination of the product functionality); (ii) if the Products or any part or component thereof: (a) have been subjected to improper operation or installation; (b) have been subject to neglect, abuse, willful damage, abnormal working conditions, failure to follow RISCO's instructions (whether oral or in writing); (c) have been misused, altered, modified or repaired without RISCO's written approval or combined with, or installed on products, or equipment of the customer or of any third party; (d) have been damaged by any factor beyond RISCO's reasonable control such as, but not limited to, power failure, electric power surges, or unsuitable third party components and the interaction of software therewith; or (e) any delay or other failure in performance of the product attributable to any means of communications, provided by any third party service provider (including, but not limited to GSM interruptions, lack of or internet outage and/or telephony failure. 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Customer understands that a correctly installed and maintained alarm may only reduce the risk of burglary, robbery or fire without warning, but is not an assurance or a guarantee that such an event will not occur or that there will be no personal injury or property loss as a result thereof. Consequently RISCO shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. No employee or representative of RISCO is authorized to change this warranty in any way or grant any other warranty.

**ENGLISH**

**General Description**

The **ZODIAC PRO** Family includes the following models:  
 • **ZODIAC PRO:** Residential PIR with excellent catch performance and false alarm rejection  
 • **ZODIAC QUAD:** Real Quad residential PIR for higher false alarm immunity and catch performance in hostile environments

• **ZODIAC PET:** Residential PIR for pet immunity installations

**Mounting locations**

Primary considerations (fig. 1). Do not mount the unit in direct sunlight or near heat sources.

**Installation**

Open the cover (fig. 2)

**Mounting procedure**

**Without swivel:**  
 Remove knockouts for mounting screws and X sole entry  
 CE - Cable entry  
 MS - Mounting screws (fig. 3)  
 Insert cable and attach the base to location (fig. 4)  
**With the swivel:**  
 Punch out Knockout.  
 Remove knockout for cable entry (fig. 5)

Attach base to swivel (fig. 6)  
 Feed the cable into the detector (fig. 7)  
 Screw swivel base on the wall or ceiling (fig. 8)

**Terminal connections**

**12VDC:** Power supply input  
**ALARM:** NC dry contact switch  
**TAMPER:** NC dry contact switch  
 Seal holes (fig. 9)

**PC Board Adjustment**

Loosen PC board holding screw (fig. 10)

Position the board according to the lens used

**Wide angle:**  
 Height 2.5m (8.2ft)  
 Room size: 3-6m (10-20ft) (fig.10 a)  
 Room size: 6-12m (20-40ft) (fig.10 b)  
**Long range lens:**  
 Height 2.5m (8.2ft) (fig.10 b)  
 range 18m (59ft) (fig.10 c)  
 Higher than typical mounting heights (fig.10 d)  
 Lower than typical mounting heights (fig.10 d)

**FRANÇAIS**

**Description Générale**

La famille des **ZODIAC PRO** comprend également les modèles suivants:  
 • **ZODIAC PRO:** a été spécialement conçu pour optimiser la définition de détection et étudié pour réduire considérablement les fausses alarmes.  
 • **ZODIAC QUAD:** Infrarouge passif Quad pour une meilleure immunité aux fausses alarmes et une définition de détection performante.  
 • **ZODIAC AD:** Infrarouge passif pour les milieux résidentiels avec immunité aux animaux domestiques

**Le Meilleur Emplacement Pour L'installation**

Considérations préliminaires  
 Ne montez pas le détecteur en exposition directe au soleil ou près de sources de chaleur. (fig. 1)

**Installation**

Ouvrez le couvercle (fig. 2)

**Montage**

**Sans la rotule :**  
 Percez les pré perforations pour la fixation des vis et

le passage du câble.  
 CE - Passage du câble  
 MS - Vis de fixation (fig. 3)  
 Faites passer le câble et fixez l'embase du boîtier à son emplacement. (fig. 4)  
**Avec la rotule :**  
 Perforez la pré découpe et percez les pré perforations pour le passage du câble (fig. 5)  
 Emboîtez la rotule comme indiqué. (fig. 6)  
 Faites passer le câble dans le détecteur (fig. 7)  
 Vissez la base de la rotule sur le mur ou au plafond. (fig. 8)

**Bornier De Raccordement**

**12VDC:** Entrée alimentation  
**ALARM:** Contact sec NF  
**TAMPER (autoprotection):** Contact sec NF  
 Rebouchez les trous restants avec du joint silicone. (fig. 9)

**Ajustement De La Carte**

Desserrez la carte en dévissant la vis de maintien. (fig. 10)  
 La position de la carte dépend de la lentille utilisée.

**Lentille Grand Angle:**

Hauteur de pose 2.5m (fig.10 a)  
 Position SHORT Taille de la pièce de 3 à 6 mètres (fig.10 b)  
 Position LONG Taille de la pièce de 6 à 12 mètres (fig.10 b)  
**Lentille Longue Portée:**  
 18 mètres de portée Hauteur de pose 2.5m (fig.10 b)  
 Quand le détecteur est monté plus haut qu'à 2.5m (fig.10 c)  
 Quand le détecteur est monté plus bas qu'à 2.5m (fig.10 d)

**ESPAÑOL**

**Descripción general**

La familia **ZODIAC PRO** incluye los modelos siguientes:  
 • **ZODIAC PRO:** PIR de uso residencial con excelente capacidad de captura e inmunidad a falsas alarmas  
 • **ZODIAC QUAD:** PIR Quad Verdadero de uso residencial para superior inmunidad a falsas alarmas y superior capacidad de captura en medioambiente hostil  
 • **ZODIAC PET:** PIR de uso residencial para instalaciones que requieren inmunidad a animales domésticos

**Posición de montaje**

Consideraciones básicas: no instale el detector expuesto directamente a la luz solar o cerca de fuentes de calor (fig. 1).

**Instalación**

Abrir la cubierta (fig.2)

**Procedimiento De Montaje Sin dispositivo de montaje giratorio:**

Abrir los agujeros pre-marcados para los tornillos de montaje y la entrada de cables  
 CE - entrada de cables  
 MS - tornillos de montaje (fig. 3)

Insertar los cables y fijar la base en su lugar (fig. 4)  
**Con dispositivo de montaje giratorio:**  
 Abrir los agujeros pre-marcados para los tornillos de montaje y la entrada de cables (fig. 5)  
 Fijar la base del detector al dispositivo de montaje giratorio (fig. 6)  
 Insertar los cables en el detector (fig. 7)  
 Atornillar el dispositivo de montaje giratorio a la pared o al techo (fig. 8)

**Conecciones**

**12 VDC:** Entrada de fuente de alimentación  
**ALARM:** conmutador de Forma A (N.C.) relé  
**TAMPER:** conmutador de Forma A (N.C.) relé  
 Sellar los agujeros (fig. 9)

**Ajuste De La Tarjeta**

Aflojar los tornillos sujetadores (fig. 10)  
 de la tarjeta.  
 Ajustar la posición de la tarjeta de acuerdo a la lente utilizada

**Lente gran angular:**

Altura: 2.5m (8.2 pies) (fig.10 a)  
 Tamaño de habitación: 3-6m (10-20 pies) (fig.10 b)  
 Tamaño de habitación: 6-15m (20-50 pies) (fig.10 b)  
**Lente de largo alcance:**  
 Altura 2.5m (8.2 pies) (fig.10 b)  
 Alcance: 18m (59 pies) (fig.10 c)  
 Alturas de montaje más altas que la típica (fig.10 c)  
 Alturas de montaje más bajas que la típica (fig.10 d)

**ITALIANO**

**Descrizione Generale**

Lo **ZODIAC PRO** comprende i modelli seguenti:  
 • **ZODIAC PRO:** Infrarosso volumetrico per installazioni installazioni residenziali con un'ottima qualità di rivelazione e immunità ai falsi allarmi  
 • **ZODIAC QUAD:** Rivelatore infrarosso Quad reale per installazioni residenziali con un'ottima qualità di rivelazione e immunità ai falsi allarmi in ambienti critici  
 • **ZODIAC PET:** Rilevatore Infrarosso per installazioni residenziali immune ai piccoli animali

**Posizionamento**

Considerazioni preliminari: non posizionare il rilevatore rivolto direttamente verso la luce del sole o in prossimità di fonti di calore (fig. 1)

**Installazione**

Aprite il Coperchio (fig.2)

**Montaggio Senza snodo:**

Premete sulle plastiche dei fori e rimuovete la plastica dai fori per l'inserimento del cavo. (fig. 5)

Aprite i fori predisposti per le viti di fissaggio e il passaggio cavi.  
 CE: Ingresso Cavo  
 MS: Viti di Fissaggio (fig. 3)  
 Inserite il cavo e fissate la base nel corretto posizionamento. (fig. 4)  
**Montaggio con snodo:**  
 Premete sulle plastiche dei fori e rimuovete la plastica dai fori per l'inserimento del cavo. (fig. 5)

Fissate la base allo snodo (fig. 6)  
 Inserite il cavo nel sensore (fig. 7)  
 Fissate la base dello snodo sulla parete o sul soffitto. (fig. 8)

**Collegamenti dei Morsetti**

**12VCC:** Ingresso alimentazione  
**ALLARME:** Normalmente chiuso (libero da tensione)  
**TAMPER:** Normalmente chiuso (libero da tensione)  
 sigillare i fori del passaggio cavi (fig. 9)

**Regolazione del Circuito Stampato**

Posizionate il circuito secondo il tipo di lente che utilizzate. (fig. 10)  
**Grand'angolo:**  
 Altezza: 2.5m (fig.10 a)  
 Dimensione della stanza: da 3 a 6m (fig.10 a)  
 Dimensione della stanza: da 6 a 15m (fig.10 b)  
**Lente per PORTATA Lunga:**  
 Altezza: 2.5m (fig.10 b)  
 Portata: 18m (fig.10 c)  
 Posizionamento più alto dell'altezza normale di montaggio. (fig.10 c)  
 Posizionamento più basso dell'altezza normale di montaggio. (fig.10 d)

