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Beyond™ DT Wired Outdoor Detector

Model: **RK350DT**

EN IT

Installation Instructions

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Description

The Beyond™ DT has been designed to provide enhanced 24-hour outdoor protection, with Active IR Anti-mask capabilities. Integrated Dual Technology (DT) combines two K-band microwave channels with two PIR sensors for better catch performance and pet immunity, minimizing false alarms. The Beyond™ DT can also be installed on the RISCO Bus saving time and money.

Features include:

- PIR coverage: 12m, 90°
- Two channel K band - MW detection **(Sway Recognition)**
- Pet friendly (pet immunity)
- Two correlated PIR Sensors
- Light sensor for reducing false alarms due to sunlight
- Active IR Anti mask
- Mounting at 2.2m with optional swivel bracket
- Designed for outdoor installation, UV resistant, IP 54
- Cover and wall tampers.

Installation

Step1: Preliminary Considerations

Select the mounting location for best coverage of the area that is to be protected (*see Coverage Patterns*). Pay attention to the following:

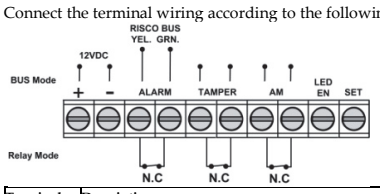
- Install the device at a height of 2.2m (7 ft 2 in). Any lower installation will reduce the detection range accordingly.
- For pet immunity, the height of an animal (without weight limitation) is up to 50 cm (1ft 6 in) when the device is installed at 2.2 m (7ft 2 in). Any lower installation will reduce detection range accordingly.
- Install the device in a location where the detector's field of view is clear of any static obstacles.
- Mount the module so that walking traffic cuts across the beam pattern.
- Do not install the device close to any moving objects.

Step 2: Mounting the Detector

1. Unscrew the fastening screw and remove the detector cover from the mounting bracket (*see Figure 1*).
2. Open the knockout holes of the mounting bracket, and use as a template for mounting (*see Figure 2*).
3. Insert external wiring through the back of the mounting bracket and secure the mounting bracket to the wall.
4. Connect the terminal wiring (*see Step 3*).
5. Set the DIP switch settings (*see Step 4*).
6. Replace the detector cover to the mounting bracket.
7. Perform a walk test (*see Step 6*).
8. Insert and fasten the screw to lock the detector (*see Figure 3*).

Step 3: Connecting the Terminal Wiring

Connect the terminal wiring according to the following:



Terminal	Description	
+ -	+12 VDC, - GND	
ALARM YEL GRN	N.C alarm relay	YEL / GRN (RISCO BUS)
	NOTE: As defined by DIP SW 6	
TAMPER +-	N.C tamper switch	
AM +-	N.C anti mask alarm relay	
LED ENABLE	Used to remotely control the LEDs when DIP1 is set to ON **Enable**: input is +12V OR no terminal connection **Disable**: Connect the input to 0V This feature prevents an intruder from gaining knowledge of the detector's status and disables anti-mask detection.	
SET / UNSET	This input enables controlling anti-masking operation in accordance to the system status, Set (Arm) / Unset (Disarm).	

System Status	Input Status	AM Relay
Set (Arm)	0V	Off
Unset (Disarm)	12V or no connection	On*

* DIP SW 4 is ON (Anti mask enabled)

Step 4: Setting DIP Switch Settings

Set the DIP switch settings according to the table, below:

DIP SW	Description					Def.	Def. Status
1*	LEDs: ON: Enable / OFF: Disable					ON	LEDs ON
2*	Sensitivity (PIR)	Low	Mid.	Norm.	Max.	ON	Normal
3*		OFF	OFF	ON	ON	OFF	
4*		OFF	ON	OFF	ON	OFF	
4*	Anti Masking: ON: Enable / OFF: Disable					ON	Enable
5*	High Sensitivity (Anti Mask): ON: High /OFF: Low					OFF	Low
6	Mode: ON: BUS / OFF: Relay (see Defining BUS ID)					OFF	Relay

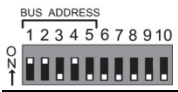
Relay mode	DIP SW 7	DIP SW 8	DIP SW 9	DIP SW 10
Normal	OFF	OFF	OFF	OFF
DEOL	ON	ON	OFF	OFF
TEOL	ON	ON	ON	ON

NOTES:
1. *DIP Switches 1-5* are for defining the BUS ID (see Defining the BUS ID).*
2. *For DEOL DIP switches 7 and 8 should both be ON.*
3. *For TEOL DIP switch 7-10 should be ON.*

Adjust microwave coverage area by using the trimmer on the PCB.

Step 5a: Defining the BUS ID

Use DIP switches 1 to 5 to define the BUS ID of each detector. Define the BUS ID settings according to the following table:



* Default settings

ID	1	2	3	4	5
01	OFF	OFF	OFF	OFF	OFF
02	ON	OFF	OFF	OFF	OFF
03	OFF	ON	OFF	OFF	OFF
04	ON	ON	OFF	OFF	OFF
05	OFF	OFF	ON	OFF	OFF
06	ON	OFF	ON	OFF	OFF
07	OFF	ON	ON	OFF	OFF
08	ON	ON	ON	OFF	OFF
09	OFF	OFF	OFF	ON	OFF
10	ON	OFF	OFF	ON	OFF
11	OFF	ON	OFF	ON	OFF
12	ON	ON	OFF	ON	OFF
13	OFF	OFF	ON	ON	OFF
14	ON	OFF	ON	ON	OFF
15	OFF	ON	ON	ON	OFF
16	ON	ON	ON	ON	OFF

ID	1	2	3	4	5
17	OFF	OFF	OFF	OFF	ON
18	ON	OFF	OFF	OFF	ON
19	OFF	ON	OFF	OFF	ON
20	ON	ON	OFF	OFF	ON
21	OFF	OFF	ON	OFF	ON
22	ON	OFF	ON	OFF	ON
23	OFF	ON	ON	OFF	ON
24	ON	ON	ON	OFF	ON
25	OFF	OFF	OFF	ON	ON
26	ON	OFF	OFF	ON	ON
27	OFF	ON	OFF	ON	ON
28	ON	ON	OFF	ON	ON
29	OFF	OFF	ON	ON	ON
30	ON	OFF	ON	ON	ON
31	OFF	ON	ON	ON	ON
32	ON	ON	ON	ON	ON

NOTE: This step is only relevant for detectors that are connected to the RISCO BUS.

Step 5b: Defining System Settings

LightSYS / ProSYS Plus – Add the BUS detector

1. Select Installer menu: [7] Install > [1] BUS Device > [5] Automatic. The system automatically searches for the detectors BUS ID and assigns a zone (according to the defined DIP switch settings).
2. Scroll to the defined zone with type ODT50 and click OK to confirm.

Configure the BUS detector parameters:
Select Installer menu: [2] Zones > [1] Parameters > [2] By Category > [7] Advanced [4] BUS Zone Parameters (*see LightSYS / ProSYS Plus Installation Manual).*
NOTE: For LightSYS Version 5.20 and above.

Step 6: Performing a Walk Test

The detector cover should be closed during the walk test. Apply power and wait at least two minutes for the detector to stabilize. Upon detection the detector transmits a signal and the LEDs light-up. Walk through the entire protected area and observe the LEDs to confirm full coverage (*see LED Status*).
Manually initiate a walk test:
Select User Menu: 5) Maintenance > 1) Walk Test > Select Full Walk Test or Quick Walk Test. The detector remains in walk test mode until any key on the panel is pressed.

LED Status

LED	State	Description
YELLOW	Blink ON	Indicates start of PIR detection analysis
	Steady ON	Indicates PIR detection
	Flashing	Indicates Active IR AM (Anti mask) detection
GREEN	Steady ON	Indicates MW detection
RED	Steady ON	Indicates ALARM
	Flashing	Indicates malfunctioned communication with the RISCO system (BUS Mode only)
All LEDs	Flashing (One after another)	Unit initialization on power up

NOTE: DIP-SW 1 should be in ON position to enable LED indications.

Self-Test

Every hour the detector performs an internal self-test for both PIR and MW channels. A fault detected in the self-test will be indicated by a momentary open fault relay (in relay mode) or by a corresponding message in the panel (in BUS mode).

Specifications

Electrical	
Current consumption:	30mA at 12 VDC (Stand by) 42mA at 12 VDC (MAX with LED ON)
Voltage requirements	9 -16 VDC
Alarm contacts	24 VDC, 0.1A
AM contacts	24 VDC, 0.1A
Tamper contacts	24 VDC, 0.1A
Physical	
Size (LxWxD):	170 x 90 x 90mm
Weight:	0.532 Kg
Environmental	
RF Immunity:	According to EN50130-4
Operating Temperature:	-30°C to 60°C (90% humidity)
Storage Temperature:	-30°C to 70°C (90% humidity)

Descrizione

Beyond™ DT è stato progettato per offrire una maggiore protezione in esterno in abbinamento ai sistemi antintrusione. Beyond™ DT è protetto dai tentativi di sabotaggio tramite un sistema di Anti-Mascheramento ad infrarossi attivo.
La doppia tecnologia integrata (DT) unisce due canali a microonde in banda K con due sensori PIR per una migliore rilevazione degli intrusi e l'immunità agli animali, riducendo al minimo i falsi allarmi.
Beyond™ DT può anche essere installato direttamente sul BUS RISCO per un maggior controllo ed un cablaggio più semplice e veloce.

Le caratteristiche includono:

- Copertura PIR: 12m, 90°
- Due canali MW in banda K con tecnologia SRT (Riconoscimento degli oggetti che oscillano)
- Due sensori PIR correlati
- Sensore luce per la riduzione dei falsi allarmi a causati dalla luce solare.
- Anti-Mascheramento ad IR attivo
- Installazione a 2.2 metri di altezza con uno snodo opzionale
- Progettato per installazioni in esterno, resistente UV, IP 54
- Tamper anti-apertura e anti-rimozione

Installazione

Passo 1: Considerazioni preliminari

Scegliere la posizione migliore in riferimento all'area da proteggere (*vedi Diagrammi di Copertura*). Fare attenzione a quanto segue:

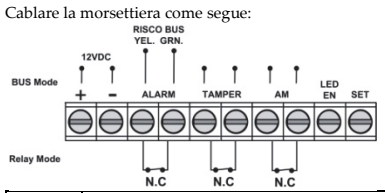
- Installare l'unità ad una altezza di 2.2 metri. Una installazione più bassa ridurrà progressivamente l'area di copertura
- L'immunità animali (senza limitazione di peso) è garantita fino a 50cm con il rivelatore installato a 2.2 metri. Installazioni più basse riducono progressivamente la massima altezza per l'immunità dell'animale
- Installare il dispositivo in una posizione dove non ci sono ostacoli fissi che possano ostruirne il campo di azione.
- Installare l'unità in modo che gli eventuali intrusi siano obbligati ad attraversarne l'area di copertura.
- Non installare il dispositivo troppo vicino ad oggetti in movimento.

Passo 2: Installazione del rivelatore

1. Svitare la vite di fissaggio e rimuovere il rivelatore dalla sua staffa. (*vedi Figura 1*).
2. Aprire i fori a sfondare della staffa di fissaggio ed usare usarla come dima per il montaggio (*vedi Figura 2*).
3. Inserire il cavo esterno dal retro della staffa di montaggio e fissare la staffa alla parete.
4. Cablare la morsettiera (*vedi Passo 3*).
5. Impostare i microinterruttori (*vedi Passo 4*).
6. Rimontare il rivelatore sulla staffa di fissaggio.
7. Effettuare la prova di movimento (*vedi Passo 6*).
8. Inserire e serrare la vite di chiusura del rivelatore (*vedi Figura 3*).

Passo 3: Cablaggio Morsettiera

Cablare la morsettiera come segue:



Morsetto	Descrizione	
+ -	+12 Vcc, - GND	
ALARM YEL GRN	Relè di allarme N.C.	YEL / GRN (BUS RISCO)
	NOTA: impostazione definita dal MIC. 6	
TAMPER +-	Relè tamper N.C	
AM +-	Relè Anti-Mascheramento N.C	
LED ENABLE	Usato per controllare remotamente il LED quando il MIC. 1 è impostato su ON Abilitato: portare una tensione +12V oppure nessuna connessione al morsetto Disabilitato: Connettere una tensione di riferimento 0V A sistema inserito questa funzione disabilita i LED (evitando che un intruso possa verificare che il sistema ha generato un allarme) e l'antimascheramento.	
SET / UNSET	Questo ingresso permette di controllare il funzionamento dell'Anti-Mascheramento e del LED in riferimento allo stato del sistema, Inserito/Disinserito.	

Stato sistema	Stato ingresso	Relè AM
Inserito	0V	Disabilitato
Disinserito	12V o nessuna connessione	Abilitato*

* MIC. 4 = ON (Anti-Mascheramento abilitato)

Passo 4: Impostazione Microint.

Impostare i microinterruttori come da tabella seguente:

MIC	Descrizione					Dflt.	Stato
1*	LED: ON = Abilitati / OFF = Disabilitati					ON	LED ON
2*	Sensibilità	Bassa	Media	Norm.	Max.	ON	Normale
3*		OFF	OFF	ON	ON	OFF	
4*		OFF	ON	OFF	ON	OFF	
4*	Anti-Mascheramento: ON=Abilitato / OFF=Disabilitato					ON	Abilitato
5*	Sensibilità Anti-Mascheramento Livello sensibilità: ON=Alto / OFF=Basso					OFF	Basso
6	Modo: ON=BUS / OFF=Relè (vedi Impostazione ID BUS)					OFF	Relè

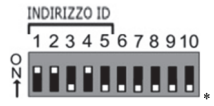
Solo Modalità Relè	MIC 7	MIC 8	MIC 9	MIC 10
Normale	OFF	OFF	OFF	OFF
DEOL	ON	ON	OFF	OFF
TEOL	ON	ON	ON	ON

NOTA:
1. *I microinterruttori da 1-5* sono usati per impostare l'ID dell'unità nel modo BUS (vedi Impostazione ID BUS).*
2. *Per DEOL, i mic. 7 e 8 vanno impostati su ON.*
3. *Per TEOL, il mic. 7-10 va impostato su ON.*

Regolare la copertura della microonda usando il potenziometro situato sulla scheda elettronica.

Passo 5a: Impostazione ID BUS

Usare i microinterruttori da 1 a 5 per impostare l'ID sul BUS del rivelatore. Impostare l'ID come da tabella seguente:



* Impostazione di default

ID	1	2	3	4	5
01	OFF	OFF	OFF	OFF	OFF
02	ON	OFF	OFF	OFF	OFF
03	OFF	ON	OFF	OFF	OFF
04	ON	ON	OFF	OFF	OFF
05	OFF	OFF	ON	OFF	OFF
06	ON	OFF	ON	OFF	OFF
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25	OFF	OFF	OFF	ON	ON
26	ON	OFF	OFF	ON	ON
27	OFF	ON	OFF	ON	ON
28	ON	ON	OFF	ON	ON
29	OFF	OFF	ON	ON	ON
30	ON	OFF	ON	ON	ON
31	OFF	ON	ON	ON	ON
32	ON	ON	ON	ON	ON

NOTA: Questa fase è necessaria solo per i rivelatori che si vogliono connettere al BUS RISCO.

Passo 5b: Impostazioni alla centrale RISCO

LightSYS/ProSYS Plus – Aggiungere un rivelatore BUS

1. In Prog. Tecnica selezionare [7] Configuraz.ne > [1] Accessori BUS > [2] Config. Manuale > [9] Zone BUS.
2. Selezionare il numero ID/ZONA (come impostato tramite i primi 5 microint.) e scegliere come tipo rivelatore l' ODT50.

Assegnazione del rivelatore BUS ad una zona
Con Lightsys il numero ID del rivelatore è automaticamente anche il numero della zona. Con Prosys Plus al momento dell'aggiunta del rivelatore BUS viene scelto il numero di zona e l'ID del rivelatore BUS ad essa associato.
Configurare i parametri del rivelatore su BUS
In Prog. Tecnica selezionare [2] Zone > [1] Per Parametro > [7] Avanzati > [4] Zone BUS (*vedi Manuale Tecnico LightSYS / ProSYS Plus).*
NOTA: Le versioni LightSyS compatibili con Beyond partono dalla 5.20.

Passo 6: Prova di movimento

Il rivelatore deve essere chiuso durante la prova di movimento (Test sensori). Alimentare il rivelatore e attendere almeno 2 minuti affinché lo stesso si stabilizza. Ad ogni rilevazione il rivelatore attiverà la sua uscita a relè e farà illuminare i LED. Attraversare l'area protetta e osservare l'accensione dei LED a conferma della corretta copertura del rivelatore (*vedi stato dei LED).*
Per iniziare la procedura di Test Sensori fare riferimento al manuale della centrale che si sta utilizzando.

Stato dei LED

LED	Stato	Descrizione
GIALLO	Fisso acceso	Indica rilevazione sui canali PIR
	Lampeggiante	Indica che l'IR di Anti-Mask si è attivato
VERDE	Fisso acceso	Indica rilevazione sui canali MW
ROSSO	Fisso acceso ON	Indica ALLARME
	Lampeggiante	Indica una anomalia di comunicazione con il sistema BUS RISCO (solo Modalità BUS)
TUTTI I LED	Lampeggiante (In sequenza)	Inizializzazione unità all'alimentazione

NOTE: Il MIC. 1 deve essere su ON per abilitare le segnalazioni LED.

Auto-Test

Ogni ora il rivelatore effettua un auto-test interno per tutti i canali di rilevazione, sia PIR che MW. Una condizione di guasto durante l'auto-test verrà indicata con l'attivazione impulsiva dell'uscita anomalia (modalità relè) o tramite un messaggio specifico dell'anomalia registrato nel menù guasti della centrale (modalità BUS).

Specifiche tecniche

Elettriche	
Assorbimento in corrente:	30mA a 12 VDC (a riposo)
	42mA a 12 VDC (max. con LED accesi)
Tensione richiesta	9 -16 VDC
Contatti di allarme	24 VDC, 0.1A
Contatti AM/Anomalia	24 VDC, 0.1A
Contatti tamper	24 VDC, 0.1A
Fisiche	
Dimensioni (H x L x P):	170x90x90mm
Peso:	0.532 Kg
Ambientali	
Immunità RF:	Conforme alla EN50130-4
Temp. di funzionamento:	Da -30°C a 60°C (umidità 90%)
Temp. di stoccaggio:	Da -30°C a 70°C (umidità 90%)

Preliminary Considerations

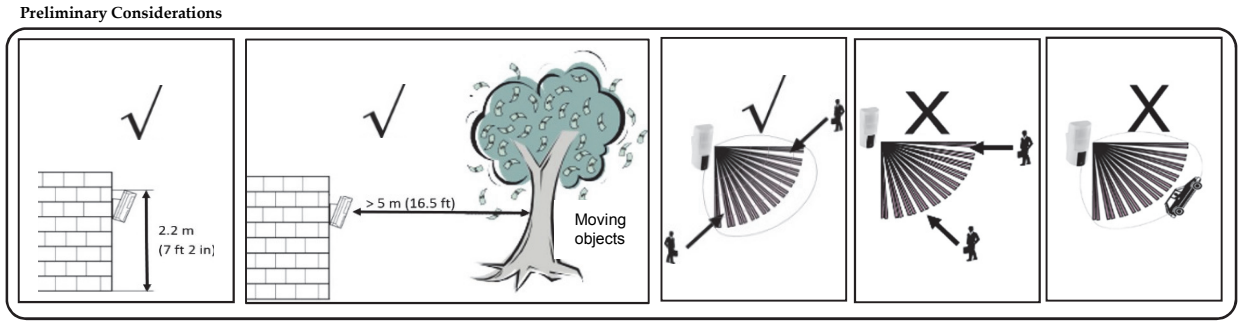


Figure 1

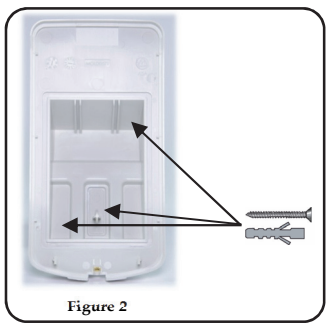
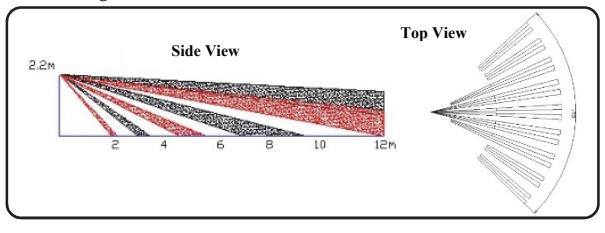


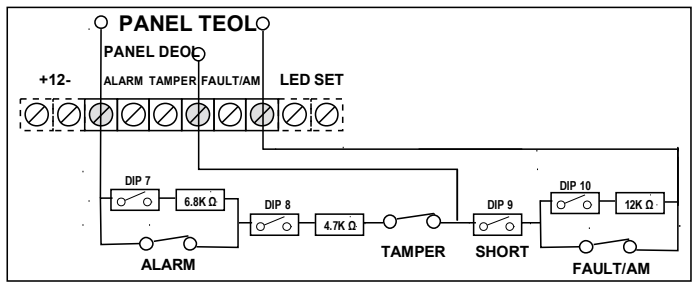
Figure 2

Figure 3

PIR Coverage Pattern



Termination Resistance



Ordering Information

RK350DT0000A	Beyond DT, K Band Detector
RK350S00000A	180◎ Swivel for WL Beyond DT

RTTE Compliance Statement:

Hereby, RISCO Group 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

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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 privy 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.
The returned product must be accompanied with a detailed description of the defect discovered ("Defect Description") and must otherwise follow RISCO's then-current RMA procedure in connection with any such return. If RISCO determines in its reasonable discretion that any Product returned by customer conforms to the applicable warranty ("Non-Defective Products"), RISCO will notify the customer of such determination and will return the applicable Product to customer at customer's expense. In addition, RISCO may propose and assess customer a charge for testing and examination of Non-Defective Products.Entire Liability. The repair or replacement of products in accordance with this warranty shall be RISCO's entire liability and customer's sole and exclusive remedy in case a material defect in a product shall be discovered and reported as required herein. 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 any 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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