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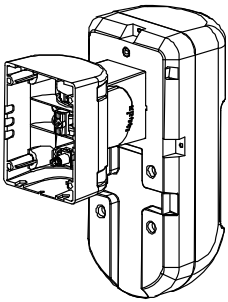
RISCO
A LIFETIME OF SECURITY

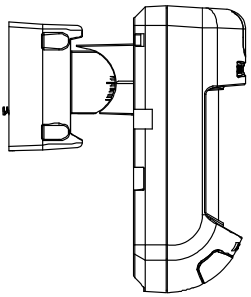
WatchIN™
Industrial Grade 3 Detector

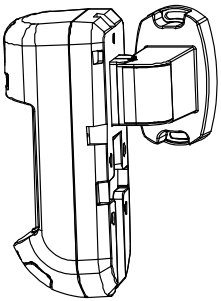
Dual Technology Industrial Detector

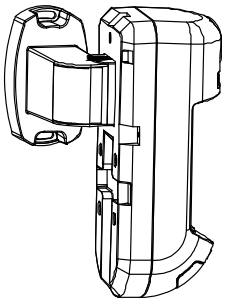
Model: RK325DT

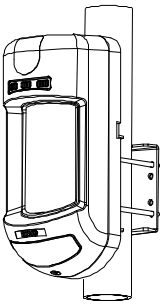
Installation Instructions - Relay & BUS Modes

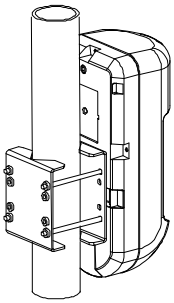


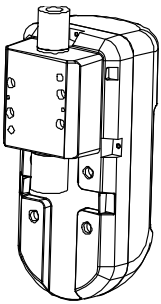


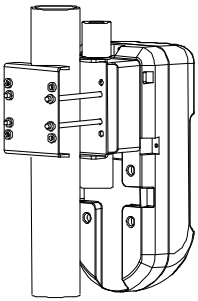












English

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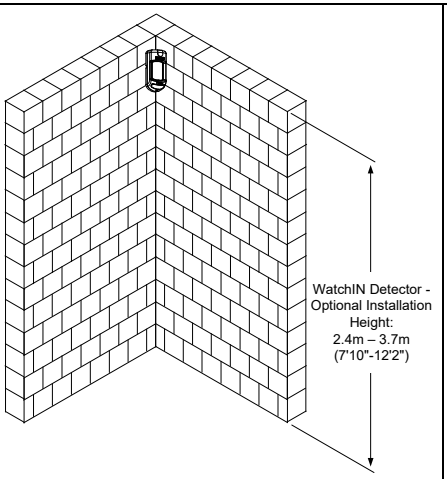
Relay Mode Installation

Introduction

RISCO Group's Dual Technology Grade 3 Industrial detector, WatchIN, is a unique detector with signal processing based on two Passive Infrared (PIR) channels and two Microwave (MW) channels. The detector can operate as a regular relay detector connected to any control panel, or as a BUS accessory when connected to RISCO Group's ProSYS control panel via the RS485 BUS, thus having unique remote control and diagnostic capabilities.
The instructions describe herein, describe the WatchIN in Relay & BUS mode. For detailed information regarding BUS mode installation, refer to BUS Mode installation chapter, page 16.

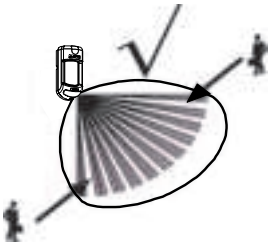
Mounting

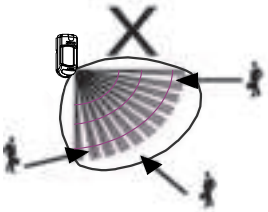
Mounting Considerations



Typical Height: 2.4m (7'10")
Default Lens: Wide angle 25m (88') 90° (RL325)

For optimum detection, select a location that is likely to intercept an intruder moving across the coverage pattern at a 45° trajectory.





Wall Mount Installation

Note:
The installation knockouts numbering are marked on the back plate.

1. Open WatchIN front cover (unlock C1, Figure 1).
2. Release internal base (unlock I1, Figure 2).
3. Select mounting installation as follows:

Flat Mounting:

Open knockouts on external base (Figure 3).

- B1 - B4: Wall mounting knockouts
- T1: Back tamper knockout
- W2 / W3: Wires entry knockouts

45° angle Mounting (Left side mounting):

a. Open knockouts on external base (Figure 3)
   - L1, L2: Left mounting knockouts
   - T3: Left tamper knockout
   - W5 / W6: Wire entry knockouts

b. Remove tamper spring

c. Replace tamper bracket (Item 1) with supplied flat tamper bracket (Item 2).

Item 1 Item 2

d. Insert Tamper lever B onto T5 and T3 and secure screw A (Figure 3)

4. Insert external wires through external base W2, W3 (Flat Mounting) or W5, W6 (Left side mounting) (Figure 3).
5. Secure external base to the wall.
6. Insert external wires and tamper wires through internal base (Figure 4).
7. Secure internal base to external base (lock I1, Figure 2).
8. Close the front cover (Lock C1, Figure 1) after wiring and setting DIP switches.
9. Walk test the detector.

Figure 1

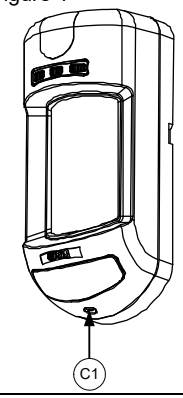


Figure 2

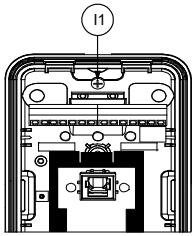


Figure 3

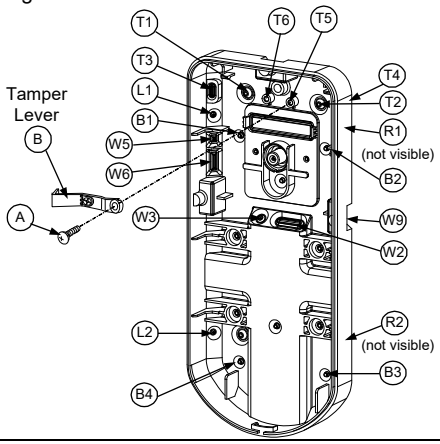
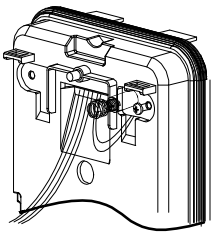


Figure 4



Note:
For 45° right side installation use the equivalent units on the external base as follows:

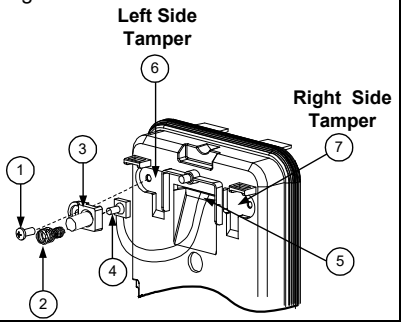
Knockouts Description	Left	Right
Mounting Knockouts	L1, L2	R1, R2
Tamper spring knockouts	T1, T3	T2, T4
Tamper screw anchor	T5	T6
Wiring Knockouts	W5, W6	W7, W8

Changing Back Tamper position

The back tamper is by default secured on the right side of the internal base (Rear view). If you wish to move it to the left side (rear view), do the following (Figure 5):

1. Remove tamper screw 1 in order to release the tamper from position 7.
2. Ensure tamper spring 2 rests over tamper wire base 4.
3. Ensure plastic tamper bracket 3 rests over both 2 and 4.
4. Secure tamper screw 1 into 3 over position 6.

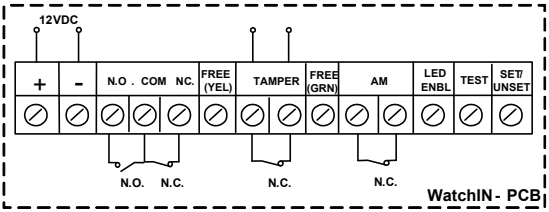
Figure 5

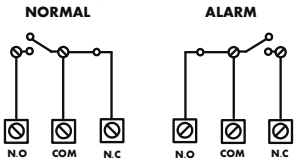


Notes:

1. Verify that you hear a "Click" when attaching the tamper spring to the wall.
2. For pole installation, the tamper can be moved to the bottom right-hand side of the internal base.

Terminal Wiring



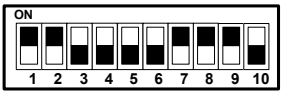
+,-	12 VDC
N.O **COM** **N.C**	Form C relay, 30VDC 1A 
FREE YEL	This terminal is a free pin that can be used to connect wires and EOL resistors
TAMPER	N.C relay, 24VDC , 0.1A
FREE GRN	This terminal is a free pin that can be used to connect wires and EOL resistors
AM	Normally closed AM relay output (24VDC, 0.1A) indicates Anti Masking alarm or any trouble in the detector. **Note:** When a vibration detector is installed and DIP 8 is defined as Enabled this relay also opens momentarily when vibration event occurs.
LED ENBL	Used to remotely control the LEDs when **DIP 1** is set to ON. Enable: input is +12V OR no terminal connection Disable: Connect the input to 0V
TEST	Used to perform remote alarm testing to the detector by applying 0 volts to this terminal. Success: Alarm relay is momentary opened Failure: AM relay is opened

SET/ UNSET	This input enables to control Anti-masking and LEDs operation in accordance to the system status, Set (Arm) / Unset (Disarm). While the system is armed, this feature prevents an intruder from gaining knowledge of the detector's status and disables Anti-masking detection.

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

* DIP 7 is ON (Anti masking enabled)
** DIP 1 is ON (LEDs enabled) and LEDs ENABLE input terminal is enabled (+12V OR no terminal connection)

DIP Switch Settings



Factory Default

DIP 1: LEDs operation
On: LEDs Enabled
Off: LEDs Disabled

DIP 2-3: Detection Sensitivity

Sensitivity	DIP2	DIP3
Low	Off	Off
Mid	Off	On
Normal (**Default**)	On	Off
ACT(Anti-Cloak™ Technology)	On	On

DIP 4: Alarm condition
On: PIR or MW
Off: PIR + MW

DIP 5: Detector's optics
On: Barrier
Off: Wide angle

DIP 6: Red LED /3 LED
On: Red LED only
Off: 3 LEDs

DIP 7: Anti masking operation
On: Enabled
Off: Disabled

DIP 8: Vibration detection (applicable to versions with Vibration sensor installed)
On: Enabled
Off: Disabled

DIP 9: Sway recognition Enable/Disable
On: Enabled
Off: Disabled

DIP 10: Green line
On: MW Off during Disarm (unset)
Off: MW On during Disarm (unset)

Note:
Green line is valid when connecting wire from the panel output (arm follow) to the detector set/unset input.

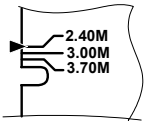
Microwave Adjustment

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

Walk test

Two minutes after applying power, walk test the protected area to verify proper operation.
For installations on uneven surfaces slide the PCB inside the internal base to the appropriate setting according to the desired height (2.4m, 3.0m, 3.7m) as printed on the bottom left corner of the PCB or use the standard swivel accessory.

For reducing the detection range, slide the PCB up or tilt the swivel down.



LEDs Display

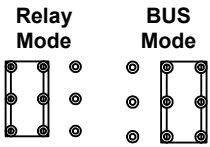
LED	State	Description
YELLOW	Steady	Indicates PIR detection
	Flashing	Indicates AM (Anti mask) detection
GREEN	Steady	Indicates MW detection
RED	Steady	Indicates ALARM
	Flashing	Indicates malfunctioned communication with ProSYS (BUS mode only)
All LEDs	Flashing (One after another)	Unit initialization on power up

Notes:

1. DIP-Switch 1 should be in ON position to enable LED indications.
2. Only one LED is active at any one time. For example, in the case of both PIR and MW detection, either the steady YELLOW LED or the steady GREEN LED is displayed (the first to detect), followed by the Alarm RED LED.

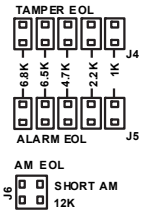
Relay Mode / BUS Mode Jumper

J-BUS jumper (located on the PCB between the red and green LEDs) is used to define the detector's mode of operation as follows:

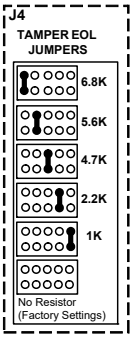


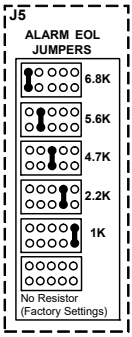
TRIPLE EOL Jumpers

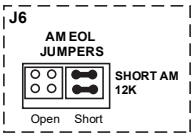
TRIPLE EOL Jumpers		Jumpers J4 and J5 allow the selection of Tamper and Alarm resistance (1K, 2.2K, 4.7K, 5.6K, 6.8K) according to the control panel (see Figure 6 below). Jumper J6 allows the selection of 12K for Anti-Mask. Follow the terminal block connection diagram in Figure 6 when connecting the detector to a Double/Triple End Of Line (DEOL/TEOL) Zone.



TAMPER EOL (J4)	ALARM EOL (J5)	AM EOL (J6)







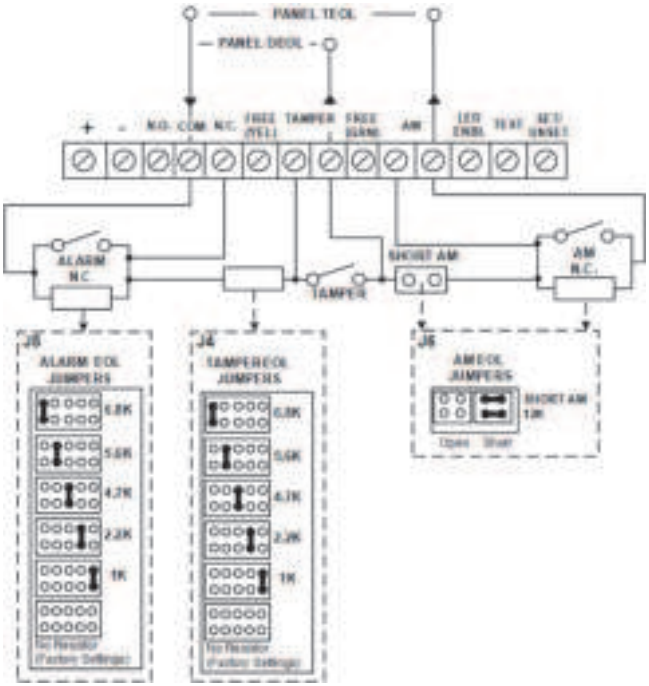


Figure 6

Standard Swivel Installation

The WatchIN detector package contains a standard swivel for flexible installation. Please follow the instructions below for mounting the detector with the Standard Swivel:

1. Open WatchIN front cover (Unlock C1, Figure1).
2. Release internal base (Unlock I1, Figure2).
3. Open knockouts on external base (Figure 7, Detail B)
   - W1: Wires knockout
   - S1,S2: Knockouts for securing external base to Standard Swivel
   - S3: External base locking screw knockout
4. On the swivel accessory remove the required swivel cable wiring knockout S2, S7 or S9 (Figure 7, Detail A).
5. Remove back tamper from the internal base (see “Changing Back Tamper Position" paragraph) and connect it to S5 (Figure 7, Detail A) on the Standard Swivel.

Note:

Ensure that you see the engraved **UP** mark on the upper front face of the swivel.

6. Select the mounting installation type as follows:

Wall Mounting

   a. Insert external cable wiring through knockouts S2, S7 or S9 and extract them (including the tamper wires) through the Swivel Wires Passage (Figure 7, Detail B).
   b. Secure swivel to the wall through holes S1, S3, S6 and S8.

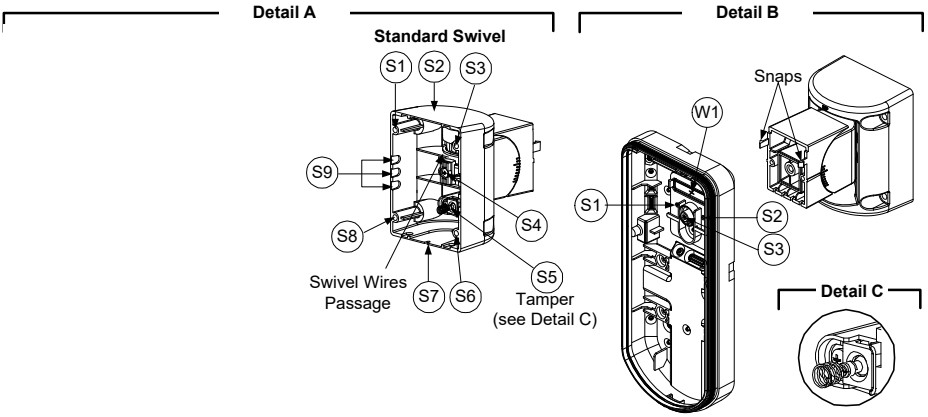


Figure 7

   c. Secure swivel to the wall through holes S1, S3, S6 and S8.
7. Insert tamper wires and external cable wiring from Standard Swivel through knockout W1 on the external base (Figure 7, Detail B).
8. Connect the external base to the swivel using the dedicated snaps (Figure 8).

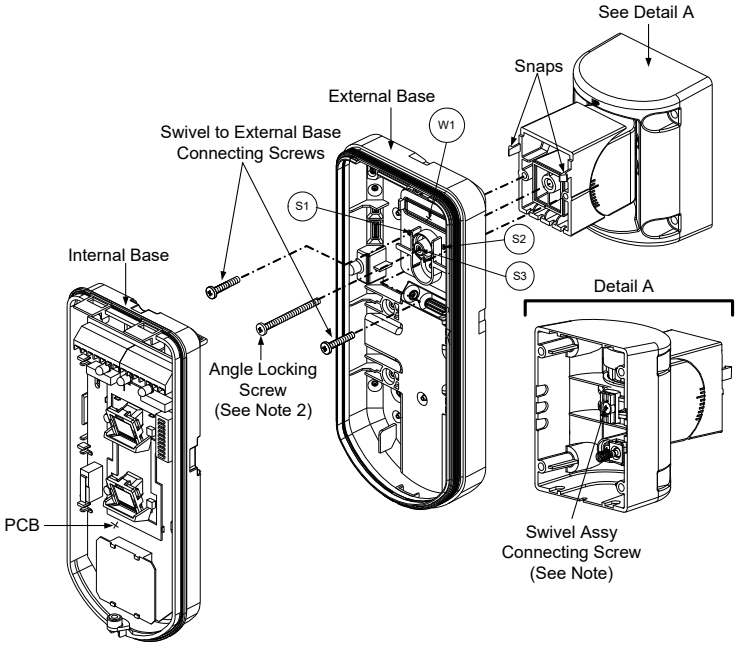


Figure 8

NOTE:

Do not open or close the Swivel Assy Screw since it is used for connecting the swivel parts only.

9. Secure external base to swivel with two screws fastened to knockouts S1 and S2 (Figure 8).
10. Insert the supplied angle locking screw from the external base through the angle locking screw knockout S3 on the external base to the standard swivel (Figure 8).
11. Tilt and Rotate the Standard Swivel to the desired position. Once the Standard Swivel is in the desired position, secure the angle locking screw.
12. Line up the internal base onto the external base. Insert all wiring cables through the internal base.
13. Secure internal base to external base (Lock I1, Figure 2).
14. To readjust the Standard Swivel when the PCB is installed (Figure 9):
    a. Bend down the black foam located below the RED LED on the PCB (enough to reach the Swivel locking screw).
    b. Use a Philips screwdriver to release the locking screw (see Figure 9).
    c. Tilt and/or Rotate the Standard Swivel to the desired position.
    d. Secure the angle locking screw.

Note:

When marks on the two movable parts are aligned (Figure 8), the Standard Swivel is in 0° vertical /horizontal position. Each click from this position represents shifting of 5° in vertical / horizontal position.

15. Close the front cover (Lock C1, Figure 1) and walk test the detector.

Note:

The screw has to pass through External Base and locked to the swivel.

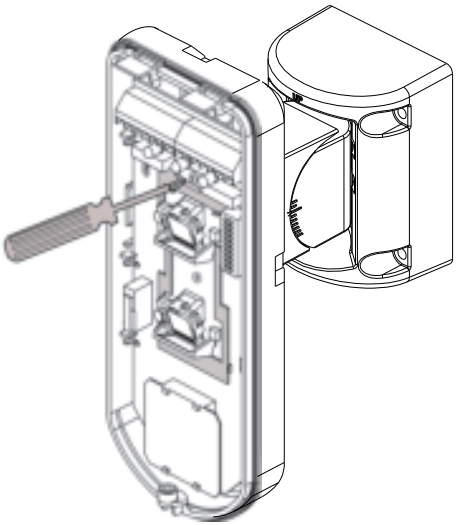
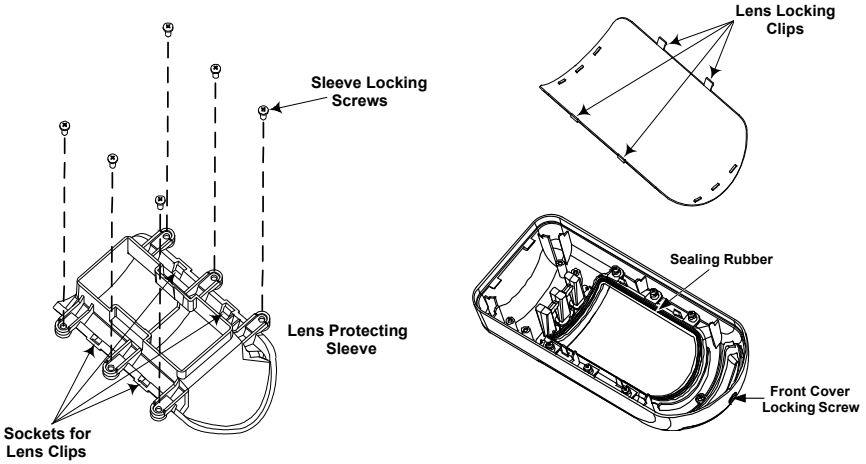


Figure 9

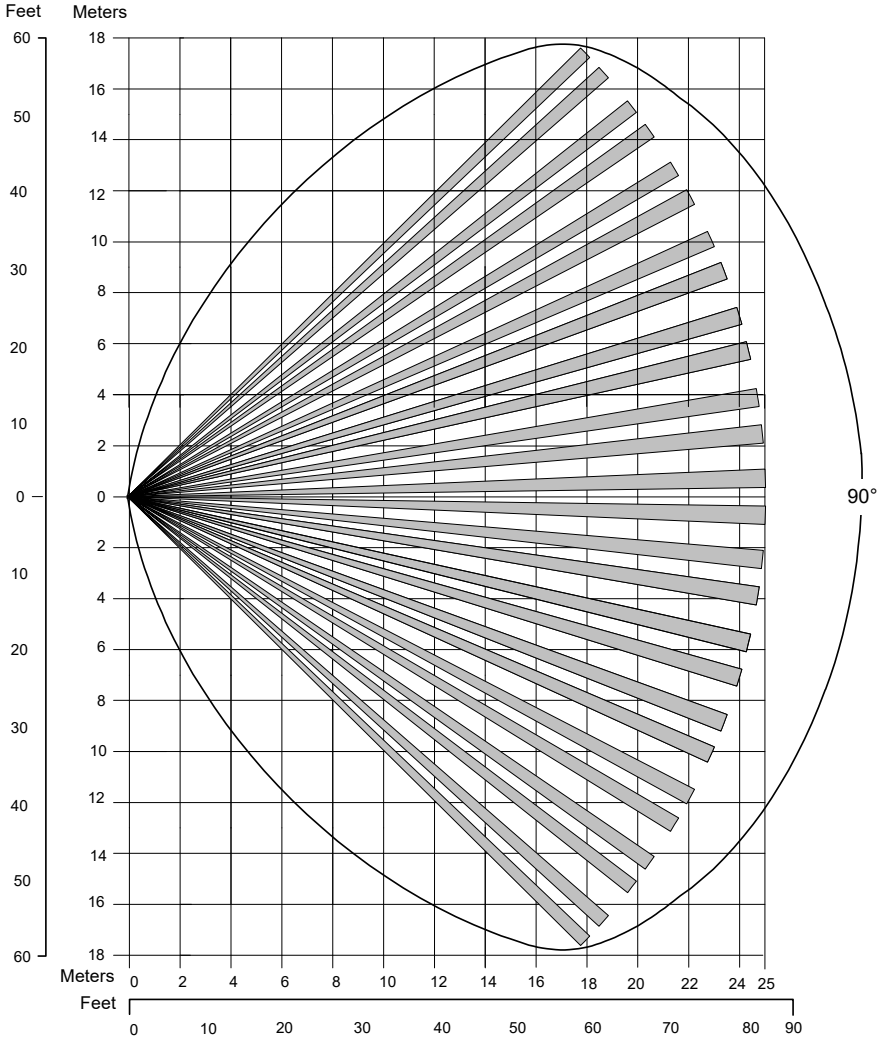
Replacing Lenses

1. Unlock the six screws that hold the lens holding sleeve from the back of the front cover.
2. To release the protective sleeve, gently push the lens from the external side of the front cover.
3. Disconnect the lens from the sleeve by gently pushing the lens clips that secure it to the sleeve.
4. Replace the lens. Place the 4 clips of the lens into the matching holes on the sleeve.
5. Insert the protective sleeve back into place on the front cover. Pay attention to place the sleeve over the sealing rubber.
6. Secure the 6 holding screws back to their place.

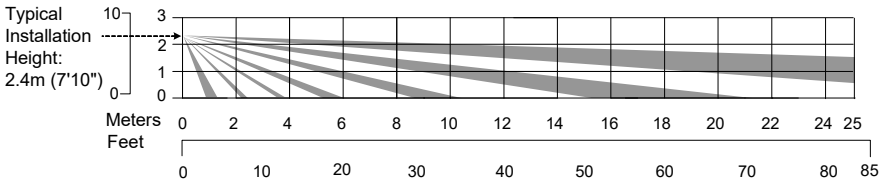


Lens Types

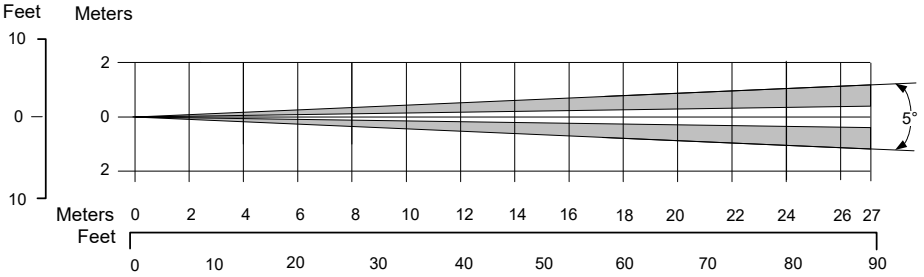
Wide angle lens (RL325): Top view



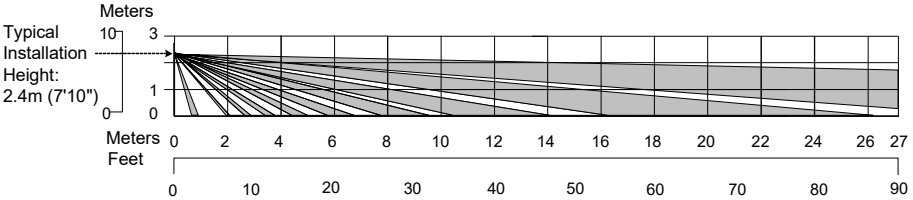
Wide angle lens (RL325): Side View



Barrier lens (RL327B): Top view



Barrier lens (RL327B): Side view



Note:

All detection patterns are assured and approved according to EN50131 in Normal sensitivity settings (factory default).
If you change the sensitivity setting, the actual detection pattern must be assured during installation.

Technical Specification

Electrical	
Current consumption (Relay Mode)	45mA at 12 VDC (Stand by)
	60mA at 12 VDC (MAX with LED ON)
Current consumption (BUS Mode)	30mA at 12 VDC (Stand by),
	45mA at 12 VDC (MAX with LED ON)
Power Output	10dBm
Voltage requirements	9-16 VDC**
Alarm contacts	30 VDC, 1A
AM contacts	24 VDC, 0.1A
Physical	
Size: LxWxD	215 x 95 x 85mm
Weight	0.632 Kg
Environmental	
RF immunity	10V/m (80MHz to 2.7GHz)
Operating temperature	-10°C to 55°C
Storage temperature	-20°C to 60°C

* PIR technology is limited in rough environmental conditions.
** Use a 5A max power supply, using safety-approved wires with a minimum gauge of 20AWG.

Ordering Information

Standard Units

Part Number	Description
RK325DT0000D	WatchIN DT + Swivel
Each of the detectors contains a standard swivel and a replacement barrier lens (P/N engraved on the Lens - RL327B)	

Accessories

Part Number	Description	Weight
RA300B00000A	Barrier Swivel Kit	0.1 Kg
RA300P00000A	Pole Adaptor Kit	0.25 Kg

BUS Mode Installation

Introduction

The information in this section relates to WatchIN DT installation in BUS Mode only. Up to 32 BUS detectors can be installed on the ProSYS RS485 BUS, saving cabling time and enabling remote control and diagnostics.

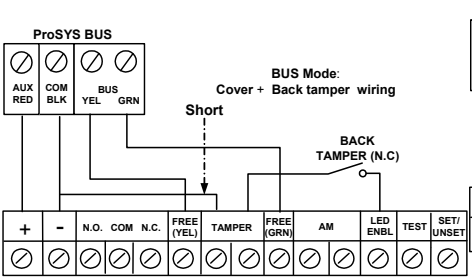
Terminal Wiring

+,-	Used for the connection of 12VDC power supply. Connect the (+) terminal to the AUX RED and the (–) terminal to the COM BLK of the ProSYS terminals
YELLOW	Used for data communication with the ProSYS. Connect to the terminal to the **BUS YEL** of the ProSYS
GREEN	Used for data communication with the ProSYS**.** Connect to the terminal to the **BUS GRN** of the ProSYS
TAMPER	Used for the wiring for tamper detection, see below
LED ENABLE	Used for the wiring for tamper detection, see below

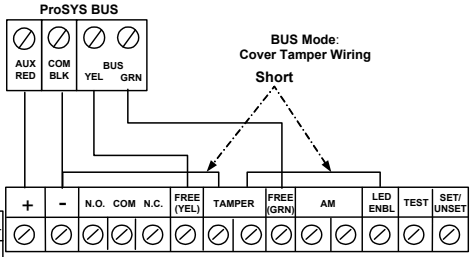
Note:

All the terminals not mentioned in the table above are unused.

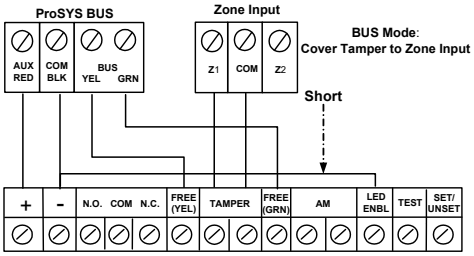
Cover and Back Tamper



Cover Tamper Only



Cover Tamper to Zone Input



DIP Switch Settings

DIP Switch Number	Description
1 - 5	Used to set the detector ID number. Set the ID number in the same way as for any other ProSYS accessory (Refer to the table below).
6 - 10	Not used

WatchIN ID: DIP Switches 1 - 5

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

ProSYS Programming (from ProSYS software version 7.xx and above)

The following section describes the additional software programming options, added to the ProSYS software, that concern the settings of the WatcIN DT as a BUS detector. Up to 32 BUS detectors can be added to the system (16 in ProSYS 16) and each of them comes at the expense of a zone in the system.
It is recommend reading and fully understanding the ProSYS Installation and User Manuals, before programming the WatchIN.

Notes:

The WatchIN is compatible with the ProSYS software Version 7.xx and above.
The WatchIN can be programmed via the U/D Software supporting ProSYS software Version 7.xx and above.
For maximum operation stability, it is best NOT to exceed a total of 300 meters (1000 feet) of wiring when connecting the WatchIN to the BUS.

Adding / Deleting the WatchIN DT

The WatchIN is part of an accessory category, BUS zones. Therefore, Adding/Deleting the WatchIN is identical to any other accessory with the following exception:
Each BUS Zone Detector should be assigned to a Regular Zone.

Any BUS detector can be assigned to a physical wired zone or to a virtual zone**.**

- **Physical zone**: Any zone on the ProSYS PCB (zones 1-8) or on a wired zone expander (ZE08, ZE16).
- **Virtual zone**: Any zone on a BUS zone expander defined as BZ08 or BZ16.

Notes:

Virtual BUS zones are cost effective. They enable to expand your system zones without adding physical zone expanders.
The virtual BUS zone expander can be used only for BUS zone detectors.
To add a BUS zone expander select type BZ08 or BZ16 when adding a zone expander (Quick key [7][1][2]).

1. To Add / Delete the WatchIN DT

1. From the installer menu enter the Add/Delete menu: Quick Key **[7][1][9][5]** for BUS Zones detectors.
2. Use the / or / keys to position the cursor over the BUS Zone ID number for which you want to assign (or delete) a detector.

Note:

Make sure that the detector's physical ID number is identical to the ID number you select during programming.

3. Place the cursor on the TYPE field and use the / key to select IDT25 for the WatchIN DT detector.
4. Press / to confirm.
5. Repeat the process for the other BUS detectors.

2. Assigning the WatchIN DT to a Zone

1. From the main installer menu enter Zones: One by One option (Quick key **[2][1]**)
2. Select the zone number that you want to assign the BUS detector**.**

Note:

If you have defined a BUS Zone Expander, select a zone number from the virtual zones (defined by the BUS zone expander).

3. Define Partitions, Groups, Zone Type and Zone Sound.
4. In the Termination category select [5] BUS Zone followed by /. The following display appears:

```
Z:001    LINK TO:
ID:01  TYPE=IDT25
```

5. Select the BUS zone number to assign to the programmed zone. The type field will be updated automatically when selecting the zone.
6. Press /. The loop response category is not applicable to a BUS zone and the following display appears:

```
Z:001    RESPONSE:
N/A-BUS ZONE
```

7. Press /, assign label and press /.

Configuring the WatchIN DT Parameters

1. To access the WatchIN settings option press **[2][0][3]** from the main installer menu. The following display appears:

```
B- ZONE PRMS:
ZONE#=001   (0:01)
```

2. Select the zone that the BUS zone was assigned to and press /. You can now program the WatchIN parameters as follows:

Zones Miscellaneous: BUS Zone

Quick Keys	Parameter	Default
[2][0][3][zzz]	**LEDS**	**3 LEDS**
[1]	Defines the LEDS operation mode	
[2][0][3][zzz]	**Off**	
[1][1]	Disables the LEDS operation	
[2][0][3][zzz]	**Red Only**	
[1][2]	Only the Red led will operate. This option is highly recommended to avoid the	

Quick Keys	Parameter	Default
	possibility that the intruder will “Learn” the detector behavior.	
[2][0][3][zzz] [1][3]	**3 LEDS**	
	All 3 LEDs will operate.	
[2][0][3][zzz] [2]	**Detection Sensitivity**	**Normal**
	Defines the sensitivity of the detector(MW + PIR)	
[2][0][3][zzz] [2][1]..[4]	**Sensitivity Options**	
	1) Low 3) Normal 2) Medium 4) ACT (Anti-Cloak™ Technology)	
[2][0][3][zzz] [3]	**MW Range**	**Trimmer**
	Defines the microwave channel range (maximum range - 27m)	
[2][0][3][zzz] [3][1]..[7]	**MW Range options**	
	1) Minimum 3) 40% 5) 80% 7) Trimmer (MW is defined by the trimmer setting on the PCB) 2) 20% 4) 60% 6) Maximum	
[2][0][3][zzz] [4]	**Alarm Logic**	**PIR and Microwave**
	Determine the detector’s logic of defining an alarm.	
[2][0][3][zzz] [4][1]	**PIR and Microwave**	
	Alarm is activated when both PIR and MW channels detect an alarm (AND Logic)	
[2][0][3][zzz] [4][2]	**PIR or Microwave**	
	An alarm is activated when either PIR or MW channels detect an alarm (OR Logic)	
[2][0][3][zzz] [5]	**Lens Type**	**Wide Angle**
	Defines the actual Lens of the detector	
[2][0][3][zzz] [5][1]..[2]	**Lens Type Options**	
	1) Wide Angle 2) Barrier	
[2][0][3][zzz] [6]	**Anti-Mask**	**Enable**
	Defines the operation of Anti Masking detection	
[2][0][3][zzz] [6][1]..[2]	**Anti-Mask Options**	
	1) Disable 2) Enable (Default)	
Quick Keys	**Parameter**	**Default**
[2][0][3][zzz] [7]	**Arm/Disarm**	**No**
	Defines the operation of the LEDs and the anti masking detections while the detector is armed	
[2][0][3][zzz] [7][1]	**No**	
	AM (Anti masking) is enabled LEDs behave according to the LEDs parameter definition	
[2][0][3][zzz] [7][2]	**Yes**	
	AM (anti masking) is disabled LEDs are disabled	
[2][0][3][zzz] [9]	**Green line**	
	The WatchIN includes a Green Line feature that follows environmental guidelines by avoiding surplus emission.	
[2][0][3][zzz] [9][1]	**NO**	
	Green Line feature in disabled: MW is constantly activated	
[2][0][3][zzz] [9][2]	**Yes**	
	Green Line feature is enabled	
[2][0][3][zzz] [0]	**SWAY**	
	This option allows the recognition and immunity of swaing objects in a known patern.	

Quick Keys	Parameter	Default
[2][0][3][zzz]	**NO**	
[0][1]	Sway is disabled	
[2][0][3][zzz]	**Yes**	
[0][2]	Sway is enabled	

System Parameters

System: System Control

Quick Keys	Parameter	
[1][2][36]	**AM=Tamper**	**Default**: **No**
(UK Version)	Used to determine the operation of Anti Masking detection Yes: Anti mask violation will activate tamper alarm. No: Anti mask violation will be regarded as trouble event.	

[1][2][37]	**VBR=Tamper**	**No**
	Used to determine the operation of the vibration detection (applicable to versions with Vibration sensor installed) Yes: Vibration detection will activate tamper alarm. No: Vibration detection will be regarded as trouble event.	

Diagnostics

The ProSYS enables you to test parameters that reflect the operation of the detector.

1. From the main user menu press (*) [4] to access the Maintenance menu.
2. Enter the Installer code (or sub-installer) and press [ ] / (#/6).
3. Press [9] [1] to for the BUS Zones diagnostic menu.
4. Enter the digit of the zone that you want to test and then press [ ] / (#/6). The system will perform the diagnostics test and a list of test parameters will appear, as indicated in the table below.
5. Use the keys [ ] / (7) [ ] / (9) to view the diagnostics test results.

User Menu: 4) Maintenance → 9) Diagnostic → 1) BUS Zone

Quick Keys	Parameter
[4][9][1][zzz]	**Detector Input Voltage**: Display the input voltage of the detector. **PIR 1 Level:** PIR channel 1 DC level. Range 0.1v - 4v **PIR 1 Noise Level:** PIR channel 1 AC level**.** Range 0VAC (No noise) - 4VA **PIR 2 Level:** PIR channel 2 DC level. Range 0.1v - 4v **PIR 2 Noise Level:** PIR channel 2 AC level**.** Range 0VAC (No noise) - 4VA **MW 1 Level:** MW channel 1 DC level Range 0.1v - 4v **MW 1 Noise Level:** MW channel 1 AC level (0VAC (No noise) - 4VAC) **MW 2 Level**: MW channel 2 DC level Range 0.1v - 4v **MW 2 Noise Level**: MW channel 2 AC level (0VAC (No noise) - 4VAC

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Contacting RISCO Group

RISCO Group is committed to customer service and product support. You can contact us through our website (www.riscogroup.com) or at the following telephone and fax numbers:

United Kingdom
Tel: +44-161-655-5500
technical@riscogroup.co.uk

Italy
Tel: +39-02-66590054
support@riscogroup.it

Spain
Tel: +34-91-490-2133
support-es@riscogroup.com

France
Tel: +33-164-73-28-50
support-fr@riscogroup.com

Belgium
Tel: +32-2522-7622
support-be@riscogroup.com

USA
Tel: +305-592-3820
support@riscogroupusa.com

China
Tel: +86-21-52-39-0066
support-cn@riscogroup.com

Israel
Tel: +972-3-963-7777
support@riscogroup.com

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