

IR Beam 72

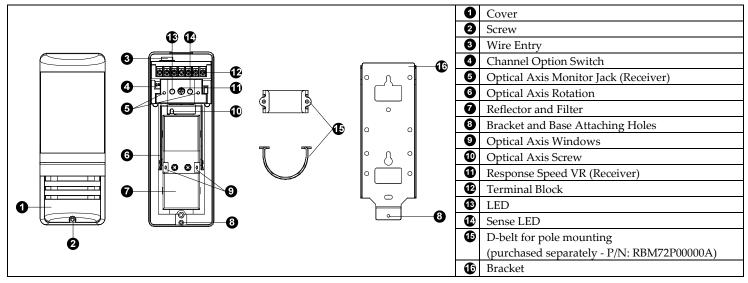
(Beam 7225/Beam 7250/Beam 7275)

Installation Guide

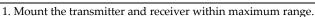
1. Introduction

The IR Beam 72 outdoor detectors employ twin beams with advanced optics and four selectable channels, providing reliable detection.

2. Layout

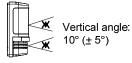


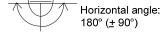
3. Mounting Location



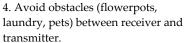


2. In case the received signal is low, install within rotation angle range of the reflector.

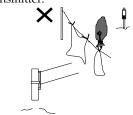




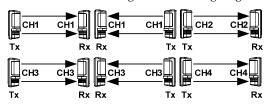
3. Avoid direct sunlight (facing sunrise or sunset) or headlamps.

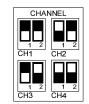




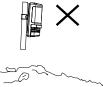


5. When installing several detectors or cross installation to avoid collision install according to the following diagram:

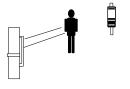




6. Do not install on unstable surfaces.

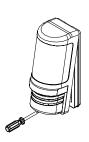


7. After mounting, adjust optical axis and conduct a walk test.

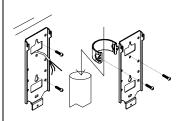


4. Installation Method

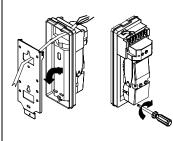
1. To remove front cover, unscrew front bottom screw.



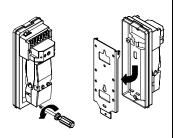
3. Mount on desired wall or pole and connect wires through wire entry (see terminal block).



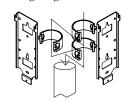
4. Connect the wire through the upper terminal block. Replace the bracket and fixing screw.



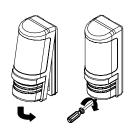
2. To separate bracket from detector, unscrew bottom screw.



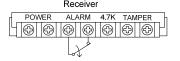
• When mounting two brackets on one pole, install a pair of D-belts at the upper and lower parts and install another D-belt in the middle for equal mounting height.

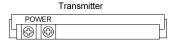


5. Adjust the optical axis and conduct a walk test. Then, replace front cover.

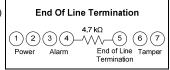


5. Terminal Block



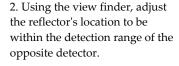


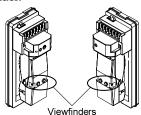
- POWER Input: 10V~28VDC (non polar)
- ALARM Output: NC, 30VDC/0.5A
- 4.7KΩ (End of Line Termination)
- TAMPER

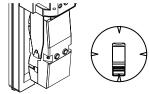


6. Beam (Viewfinder) Adjustment

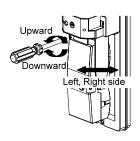
1. After confirming detector mounting location, adjust the reflector angle using the view







3. To adjust the axis angle, turn the axis left or right side and up or downward with a screwdriver.



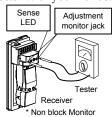
• If the opposite detector is not shown clearly, attach a white paper cover on the back of the opposite detector. The distance between the installer and viewfinder should be about 3-5cm (1.1"-1.9") to observe the opposite detector clearly.

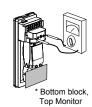
• Fine adjustment of an optical axis:

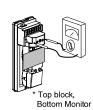
An error can be caused in the installer's field of vision. So, fine adjustment must be conducted using a built-in monitor jack and a tester.

4. Fine adjustment method:

(1) Insert "+" on tester to receiver's positive voltage, "_"on tester should connect to "_" on receiver. Turn the receiver's reflector to the right or left so tester voltage is maximized. Avoid blocking the reflector with your hands.







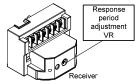
 $oldsymbol{0}$ If adjusted exactly, without a block test, sense LED is switched off and the monitor voltage is kept consistent.

(2) Refer to the table below for tester indicated voltage and reliability. For maximum output, perform fine adjustment. Preferably, adjust tester voltage to high sensitivity.(Power input: 12VDC)

Tester indicated voltage	Sensitivity (outdoor)	Sensitivity (indoor)	
Over 6.1V	High	High	
Over 5.8V	Satisfactory		
Over 5.3V	Average	Satisfactory	
Over 4.8V	Needs	Average	
Below 4.8V	adjustment	Needs adjustment	

7. Response Time

The Response period adjustment VR allows you to match the sensitivity to the surroundings and avoid false alarms. Slower settings reduce sensitivity.



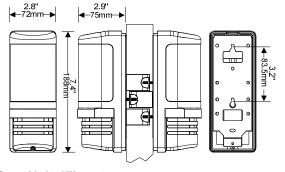


VR indicator	1 ~ 2	2~3	3 ~ 4	4~5	5~6
				(Default)	
Detection type	Quick	Jogging	Quick	Normal	Slow
	running		pace	pace	pace
Detection speed	0.05sec	0.1sec	0.2sec	0.35sec	0.5sec

8. Technical Specifications

Model	Beam 7225	Beam 7250	Beam 7275		
Detection Method	Infrared photoelectric				
Beam Channel Option	4 channels set by dipswitch				
Detection Range (Outdoor)	25m (82ft)	50m (165ft)	75m (250ft)		
Detection Range (Indoor)	50m (165ft)	100m (328ft)	150m (492ft)		
Response Period	0.05sec - 0.5sec				
Alarm Period	Receiver: Standby-LED is "OFF", Alarm-LED is "ON"				
	Transmitter: LED is "ON" in normal situation				
Alarm Output	Standby: short, Alarm: disconnection				
	Contact Point: 3	30VDC/0.5A,			
	resistance:2.2 Ω	nce:2.2Ω			
Optical Axis Adjustment range	Horizontal: ±90°, Vertical: ±5°				
Power Input	10 ~ 28VDC (non-polarity)				
Power consumption	Receiver: 22mA, Transmitter: 12mA, ±3mA				
Tamper	Cover removal				
IP Rating	IP44				
Weight	1.058kg (2.3lb)				
Operating Temperature	-20°C to +55°C (-4°F to 131°F)				
Storage Temperature	-25°C to +60°C (13°F to 140°F)				
Material	ABS resin, Polycarbonate				

9. External Dimensions



RISCO Group Limited Warranty

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 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 or installation or any liability for direct, indirect, or consequential damages or dealy. Seller does not represent that its product may not be compromised or circumvented, that the product will prevent any personal injury or property be said to a property installed and maintained alarm may only reduce the risk of the purpary, 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 or 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 any other warranty.

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

Contacting RISCO Group

RISCO Group is committed to customer service and product support. You can contact us through our website www.riscogroup.com or as follows:

United Kingdom Tel: +44-161-655-5500 technical@riscogroup.co.uk Italy Tel: +39-02-66590054 support@riscogroup.it **Belgium** Tel: +32-2522-7622 support-be@riscogroup.com

USA Tel: +1-631-719-4400 support-usa@riscogroup.com Brazil Tel: +1-866-969-5111 Spain Tel: +34-91-490-2133

Tel: +33-164-73-28-50 ort-fr@riscogroup.co **China** Tel: +86-21-52-39-0066 Poland Tel: +48-22-500-28-40

72-3-963-7777

5IN1281

© RISCO Group 09/09

All rights reserved. No part of this document may be reproduced in any form without prior written permission from the publisher.