



# Wireless Barrier Beams

RISCO Group's landmark range of Wireless Active Infrared Barrier Beams are the ultimate solution for outdoor perimeter protection of residential and commercial properties. Powered by breakthrough technologies, high performance and resilience is ensured even in direct sunlight. Installation has never been easier with plug & play auto-setup and patent pending front mounting of beam modules.

The Wireless Barrier Beams are compatible with all RISCO Group Wireless and Hybrid Security Systems.



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Creating Security Solutions.  
*With Care.*

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# Wireless Barrier Beams

## Wireless Barrier Beam Features

- Range: 5m (16.4') outdoors, 8m (26.2') indoors
- Protected heights: 0.5m-2.7m (1'8" to 9'), with up to 10 pairs of synchronized twin beams
- Operates in direct sunlight due to unique IR beam technology
- High false alarm immunity from leaves, blowing debris and small animals
- Powered by standard 3V CR123A lithium batteries with 3 year typical lifetime
- Plug & Play auto-setup between twin beams without manual settings
- Simple beam alignment using indications from LED bar and correlating buzzer
- Anti-sabotage provided by encrypted beam signal with system ID
- Anti-collision feature prevents crosstalk between adjacent units
- Inherent 180° rotating swivel for side aiming
- Adjustable beam positioning in the rail
- Easy addition or replacement of modules without removing rail from wall, using patent-pending front mounting
- UV protected polycarbonate IR filter cover and anodized aluminum rail
- Cover and wall tamper protection
- Alerts for gradual signal loss due to fog, snow, dust and rain

## Wireless Barrier Beam Highlights

Feature	Explanation of Benefit
<b>High false alarm immunity with twin beams in each IR link</b>	Up to 10 twin IR beams are hosted in each rail. The double beams per link provide high false alarm immunity from leaves, blowing debris and small animals, as an alarm is only triggered when both beams are obstructed.
<b>Synchronized communication protocol</b>	Each twin-beam link transmits and receives in a dedicated timeslot, eliminating crosstalk and extending battery life.
<b>Encrypted beam signal</b>	Provides anti-sabotage protection as each transmitting unit is encrypted with its unique ID, and learnt by the receiving rail during the installation process.
<b>Unique beam pulse technology</b>	Exceptionally short pulses save battery power and enable operation in direct sunlight.
<b>Front mounting modules</b>	Easy addition or replacement of modules without removing rails from wall.
<b>LED bar and correlating buzzer</b>	Visual and audible tools for easy and quick beam alignment.
<b>Powered by standard batteries</b>	Batteries can be easily replaced. Each twin-beam link uses a single 3V CR123A lithium battery with 3 year typical lifetime.

## Unique Technologies

### Direct Sunlight Immunity



Direct Sunlight Immunity is achieved by using extremely short beam pulse duration together with optical and unique electronic filtering. This unique design filters out IR energy from the sun and provides high performance even in direct sunlight

### Green Consumption Technology



Intelligent electronic design, with module synchronization and extremely short pulse duration, enables achieving 3 year typical battery life with standard 3V lithium batteries

### Front Mounting Modules



A patent-pending design allows inserting beam modules from the front, and securing their position with the flick of a clip. This breakthrough technology allows quick addition or replacement of beam modules, without the need for removing the rails from the wall

## 2-Way Wireless Models



2-Way Wireless models are available for use with RISCO Group's Agility system.

### Barriers Tailored for Any Height and Level of Security

Flexibility of both barrier height and beam density provides a tailored solution for any installation. The Wireless Barrier Beam is flexible up to 2.7m (9ft). From 2 up to 10 twin beam modules (20 beams) can be simply inserted in each barrier rail to achieve the level of security required in your application.



### The following specifications are for 0.5m (1'8") height barrier.

(For 1m height double the number of beams and batteries)

	Wireless Barrier Beam 0.5m
<b>Product height</b>	0.5 meter (1'8")
<b>Number of beams</b>	4 (2 twin beam modules)
<b>Outdoor range</b>	5m (16.4')
<b>Indoor range</b>	8m (26.2')
<b>Detection method</b>	Simultaneous interruption of two pulsed infrared beams
<b>Beam interruption response time</b>	Adjustable from 225 to 900msec
<b>Optical axis rotation</b>	180° horizontal
<b>Anti-Sabotage</b>	Encrypted protocol with system ID
<b>Anti-Collision</b>	2 channels, synchronized protocol
<b>Environmental protection</b>	Designed for IP65
<b>Tamper protection</b>	Cover and wall tamper
<b>Operating temperature</b>	-20°C to +60°C (-4°F to 140°F)
<b>Batteries supplied</b>	2 * CR123A 3V Lithium , (1 for Tx rail, 1 for Rx rail)
<b>Battery life (normal mode)</b>	3 years typical, with 10 beam interruptions and 40 radio transmissions each day
<b>Dimensions (HxWxD)</b>	500x40x42mm, 19.6"x1.5"x1.6"

Specifications are subject to change without prior notice

# The Wireless Barrier Beams are compatible with all RISCO Group Wireless and Hybrid Security Systems

## Agility

Agility is RISCO Group's flexible wireless solution providing security, safety and home automation in a combination of sheer elegance and unrivalled simplicity. Any combination of IP, GSM/GPRS and fast PSTN modules can be added, all within the main enclosure.

## 2-Way Wireless

Agility's 2-Way Wireless technology provides higher security as each and every transmission is acknowledged, eliminates repetitive signalling, and enables remote setting and diagnostics of detector parameters, reducing on-site visits. Both 1-Way and 2-Way Wireless detectors can be used in the same installation.



## RISCO's Hybrid Wireless Systems

RISCO Group's flagship ProSYS Integrated Security System and other RISCO hybrid systems support a wide range of wireless accessories, providing the flexibility to add wireless to any commercial or residential installation.



## WisDom

WisDom is a wireless security system that is simple, quick and reliable. It's ideal for any home or small business and provides years of trouble-free service.



## Reliable Outdoor Protection

RISCO Group's Outdoor Beam and Motion Detectors are the ultimate security reinforcement for commercial, industrial and residential security systems, providing a higher level of awareness, peace of mind and the robust, reliable outdoor protection that your customers expect.

RISCO's unique technologies for dealing with the unstable outdoor environment ensure the highest level of immunity to false alarms, while robust weatherproof housings withstand the harshest outdoor climates.

"Although the global economic situation is not ideal, the demand for outdoor sensors has not waned. Critical infrastructure construction has continued... and most of these sites require, by law, some form of outdoor protection." - IMS Research

### Additional Outdoor Detectors from RISCO Group:



#### Wired Barrier Beams

With RISCO Bus connectivity (coming soon)



#### WatchOUT™

The Award Winning Outdoor Motion Detector in Wired and Wireless versions



#### Wired Twin Beams

With range up to 75m (250ft)



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