

ACCURANCE R1002

Reverse detection system

OUTDOOR PROTECTION

INDOOR PROTECTION

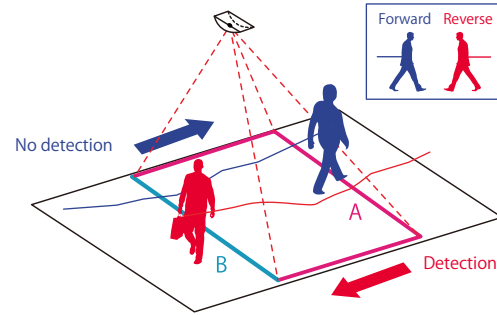
REDWALL

ACCESS CONTROL

TECHNICAL INFORMATION



Reverse Detection System R1002 with a unique detection algorithm [Vector Focal Method] is designed to detect backward movement of human(s) in a specific area. The system is suitable for applications to catch a suspicious individual such as airports for an efficient facility management or security.



FEATURES

- Accurate detection
A unique detection method [Vector Focal Method] grasps and tracks a shape of human sterically.
- Reverse detection
Grasp all human movements and detect only backward movement
- System corporation
Enable to be connected with an upper layer system by using no-voltage output from the control box.

SPECIFICATIONS

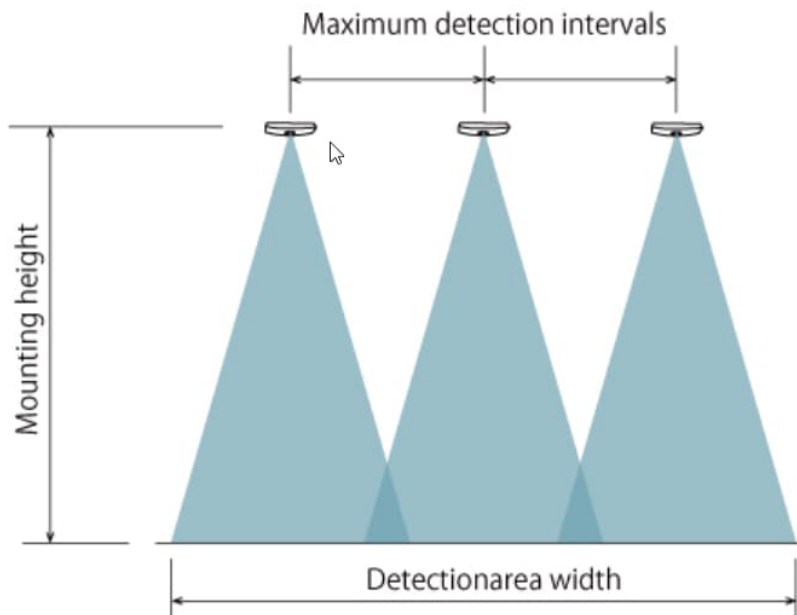
Items	Specifications		Remarks
Detection Method	Vector Focusing Method		
Detection Accuracy	> 95% (by own criteria)		
Supply Voltage	Power over Ethernet IEEE 802.3 af		
Warm-up time	Approx. 45 sec.		
Power Consumption	Control box	10 W max.	
	Detection unit	10 W max.	
Indicator	Control box	Green	Power (lit)
		Red	Reverse detection (lit)
		Green / Red	Warm-up (lit) / Trouble (blinking)
	Detection unit	Green	Power (lit)
		Red	Reverse detection (lit)
		Orange	Warm-up (lit) / Trouble (blinking)
Dimensions	Control box	265 × 135 × 31 mm	(W × H × D)
	Detection unit	193 × 85 × 34 mm	(W × H × D)
Weight	Control box	800 g	
	Detection unit	220 g	
Operating Temperature	0 to 50°C		
Operating Humidity only under no condensation	< 80% RH		only under no condensation
Operating Illuminance only the outline of an object is shown	100 to 20,000 lux *1		only the outline of an object is shown
Install location	Control box	Wall / stationary	Interior only
	Detection unit	Ceiling	Interior only
Mounting Height	Detection unit	2.5 to 4.0 m	It may be limited by environmental conditions.
LAN wiring	CAT5e or larger		100 m max. in length
Ethernet	100Base-T(X)		Protocol : TCP/UDP(IPv4), ARP, ICMP or HTTP
Input terminal *2	Disable output Disable reverse detection [1] and [2]		
	Output reset Stop the outputs of reverse detection [1] and [2]		
Output terminal *2	Reverse detection [1]		Variable timer 0.2 to infinity
	Reverse detection [2]		
	Unit [1] detects Pulse output for reverse detection by unit [1]		
	Unit [2] detects Pulse output for reverse detection by unit [2]		
	Unit [3] detects Pulse output for reverse detection by unit [3]		
	Number of reverse detections		
Error		MOS FET relay N.O./N.C. no voltage 30 V DC 0.2 A or less (Resistibility load)	
			Pulse output for the number of reverse detection by unit [1]
			Pulse output for the number of reverse detection by unit [2]
			Pulse output for the number of reverse detection by unit [3]
			Pulse output for the number of reverse detection
			Output when disable to detect

*1 R1002 always requires 100 lux or more.

*2 Input/output relays can be selected N.O./N.C. by the dipswitch.

The images taken by this product are used only for the judgment processing performed inside this product and are deleted immediately after such processing.

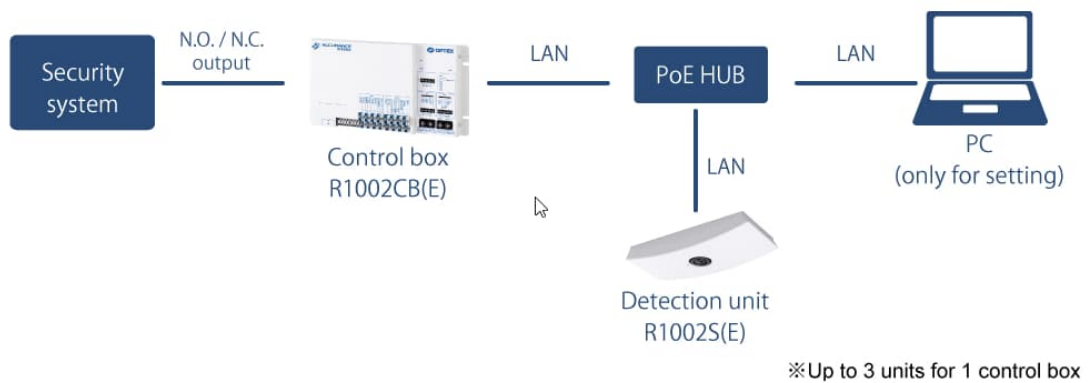
Optex OPXR1002CB(E) Detection Area:



[Unit : mm]

Mounting height	Detection area width			Maximum installation intervals
	One unit	Two units	Three units	
2500	1500	2700	3900	1200
3000	2700	5100	7500	2400
3500	3300	6300	9300	3000
4000	4000	7700	11400	3700

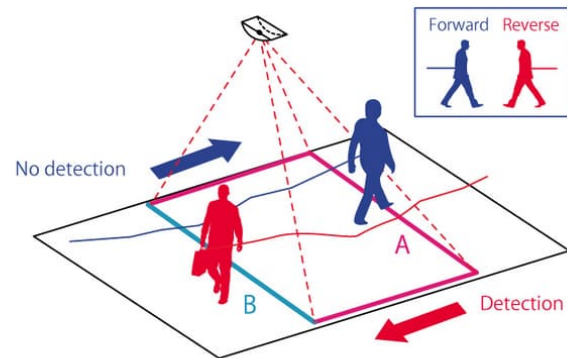
System configuration



Optex OPXR1002CB(E) Scenarios:

Principle

As the left figure shows, when a passer by crosses two lines of pink (A) and light blue (B) in opposite directions, a "Reverse" output will be activated.



- Accurate detection
An unique detection method [Vector Focal Method] grasps and tracks a shape of human sterically.
- Reverse detection
Grasp all human movements and detect only backward movement
- System corporation
Enable to be connected with an upper layer system by using no-voltage output from the control box.

