



Reverse detection system



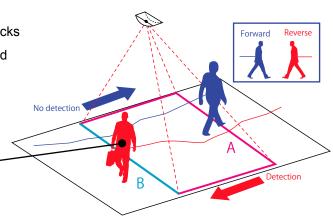
Detection unit: R1002CB(E) Control box : R1002CB(E)

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

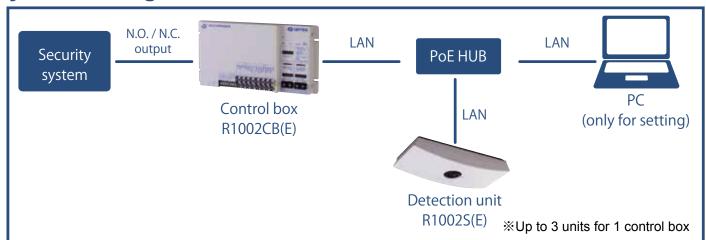
Principle

An unique detection method [Vector Focal Method] grasps and tracks a shape of human sterically. The system can recognize complicated movement and the number of people at high rate and accuracy.

As shown in the figure below, when a passer by crosses two lines of pink (A) and light blue (B) in oppsite directions, a "Reverse" outout will be activated.



System configuration



Features

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

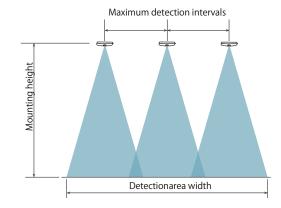
Enable to be connected with an upper layer system by using no-voltage output from the control box.

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) Communication trouble (alternative blinking)	
	Detection unit	Green	Power (lit)	
		Red	Reverse detection (lit)	
		Orange	Warm-up (lit) / Trouble (blinking)	
		Green / Red	Communication trouble (alternative blinking)	
Dimensions	Control box	265 × 135 × 31 mm	$(W \times H \times D)$	
	Detection unit	193 × 85 × 34 mm	$(W \times H \times D)$	
Weight	Control box	800 g		
	Detection unit	220 g		
Operating Temperature 0 to 50°C				
Operating Humidity	< 80% RH		only under no condensation	
Operating Illuminance	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	N.O./N.C. no voltage	Disable reverse detection [1] and [2]	
	Output reset	N.O./N.C. No voltage	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	MOS FET relay	Pulse output for reverse detection by unit [1]	
	Unit [2] detects	N.O./N.C. no voltage	Pulse output for reverse detection by unit [2]	
	Unit [3] detects	30 V DC 0.2 A or less	Pulse output for reverse detection by unit [3]	
	Number of reverse	(Resistibility load)	Pulse output for the number of reverse detection	
	detections			
	Error		Output when disable to detect	

^{*1} R1002 always requires 100 lux or more.

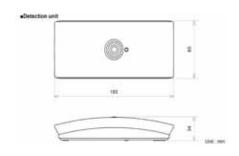
Detection area

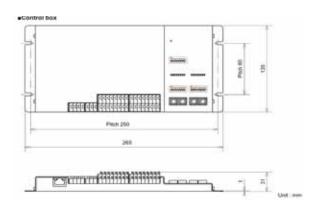


Mounting height	С	Maximum installation		
	One unit	Two units	Three units	intervals
2500	1500	2700	3900	1200
3000	2700	5100	7500	2400
3500	3300	6300	9300	3000
4000	4000	7700	11400	3700

Unit: mm

Dimensions







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