OPTEX

Active Infrared
Door Sensor

i sensor

Safety **Reliable** **MOTION** Flexible
Large pattern
Convenience immunity DESIGN
Easy adjustment **TECHNOLOGY** Presence detection

With its large motion and presence detection pattern, the i sensor features a safety zone in the threshold and sidelights that is always on. The size and shape of the detection pattern can be easily adjusted to match almost any application.
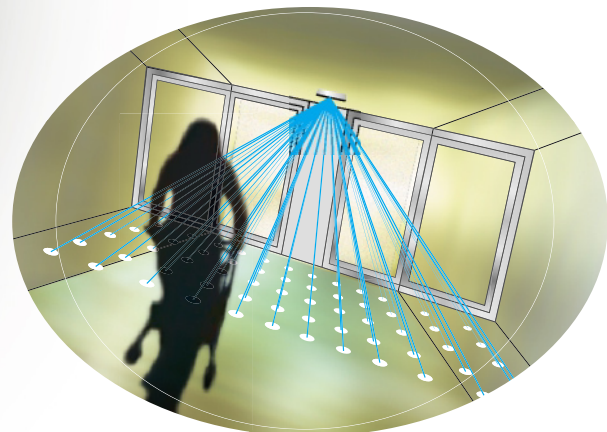
Large detection area

The extra-wide pattern covers the door opening plus sidelights, providing fast detection for traffic approaching from any angle. The sensor's enhanced pattern depth enables it to detect people and objects farther away and allows the door to open conveniently for them.

Safety

Safety is assured by the two rows of presence detection closest to the door, which never shut off. The sensor detects a person or object and holds the door open as long as they are in the threshold area, even if they stop or pause. The i-two provides a second output relay for direct connection to the automatic door's safety circuit.

Flexible

The i sensor is perfectly suited for almost any type of door or configuration. It can be set for unidirectional detection, which saves energy by allowing the door to close more quickly for departing traffic.

Easy adjustment

By using easily-set switches and shutters, the sensor can be quickly adjusted for many different applications. No external set-up device is needed.

All conditions

Snow mode, rain mode and sensitivity adjustments make this sensor suitable for every application and even extreme weather conditions.

i sensor

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Specifications

Model	i-one/i-two
Mounting Height	max. 9'10" (3.0m)
Detection Area Adjustments	Approach Depth Angle ± 15°
	Motion Presence Area ± 5°
	Approach Width: All spots can be eliminated by dipswitch
	Motion Presence Area width can be adjusted by shutter
Detection Technique	Active Infrared Reflection (Presence Detection Type)
Power Supply	12 - 24V AC, 12 - 30V DC
Current Draw	250mA max.
Power/Operating Indicator	Green: Standby
	Blinking Red: 1st Row Detection Active
	Red: 2nd Row Detection Active
	Orange: Motion Detection Active
	Blinking Orange: Approach Detection Active
Output Contact	Activating: Form C Relay 50V, 0.3A (Resistance Load)
	Presence detection: Form C Relay 50V, 0.3A (Resistance Load). **(i-two only)**
Relay Hold Time	0.5 to 2s
Response Time	< 0.3s
Operating Temperature	-4°F - +131°F (-20°C - +55°)
Dimensions	304 x 70 x 66mm (w x h x d)
Weight	14oz. (400g)
Accessories	3m Connection Cable, 2 Mounting Screws, Mounting Template, Area adjustment tool

Detection area chart

Presence Detection Area

Motion Detection Area

Approach Detection Area

Chart shows figures if all angles are set at 0°
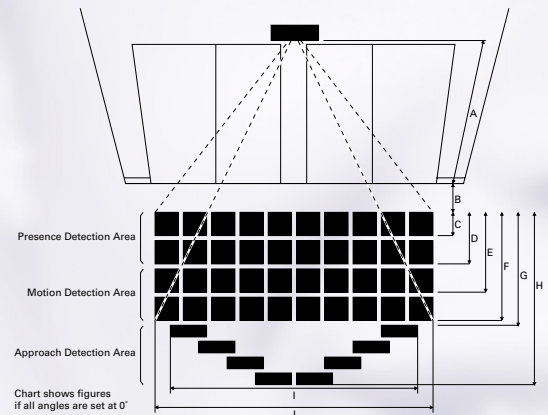
	7'3" (2.20m)	8'2" (2.50m)	9'10" (3.00m)
Mounting Height A			
Distance to mounting surface B	3'9" (0.10m)	4'5" (0.11m)	5'3" (0.14m)
Area Depth C presence detection	10" (0.25m)	11' (0.28m)	1'1" (0.34m)
Area Depth D presence detection	2' (0.60m)	2'3" (0.68m)	2'8" (0.82m)
Area Depth E motion detection	3'3" (1.00m)	3'9" (1.13m)	4'6" (1.36m)
Area Depth F motion detection	4'9" (1.45m)	5'5" (1.65m)	6'6" (1.98m)
Area Depth G motion detection	4'11" (1.50m)	5'7" (1.71m)	6'9" (2.05m)
Area Depth H approach detection	8'6" (2.60m)	9'9" (2.96m)	11'8" (3.55m)
Area Width I approach detection	14'9" (4.50m)	16'9" (5.11m)	20'2" (6.14m)
Area Width J	16'1" (4.90m)	18'3" (5.57m)	21'11" (6.68m)