



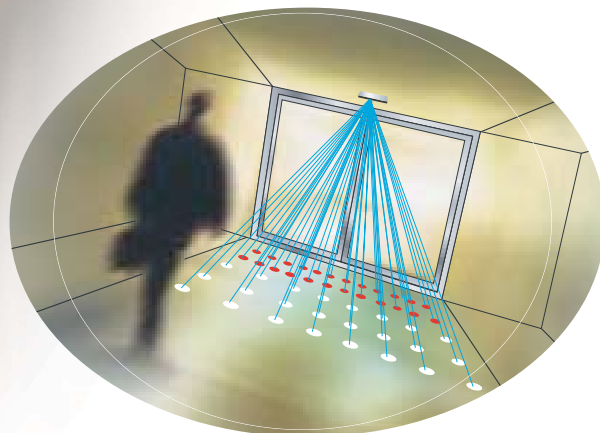
Active Infrared Door Sensor

Horizon I/II



Safety Reliable Convenience **Immunity**
Technology flexible **presence detection**
Large pattern DESIGN EASY ADJUSTMENT

With its large motion and presence detection pattern the Horizon Active Infrared sensor covers the complete range of automatic activation and safety sensors in one sensor. The size and shape of the detection pattern can be easily adjusted to match almost any application. A separate safety output is available on the Horizon II.



Large detection area

The large detection area providing fast detection for any traffic, including trolleys, 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. The presence and motion detection area's can be adjusted independently.

Safety

Safety is assured by the two rows of presence detection closest to the door. The sensor detects a person or object and holds the door open as long as they are near the threshold area, even if they stop or pause. The presence detection can be adjusted $\pm 10^\circ$ towards or away from the door. The Horizon is available in two versions: Horizon I (with one output) and Horizon II (with one output for activation and a separate output for safety).

Flexible

The Horizon is perfectly suited for almost any type of door or configuration including supermarkets and do it yourself shops. The motion detection area can be adjusted independently from the safety area.

Easy adjustment

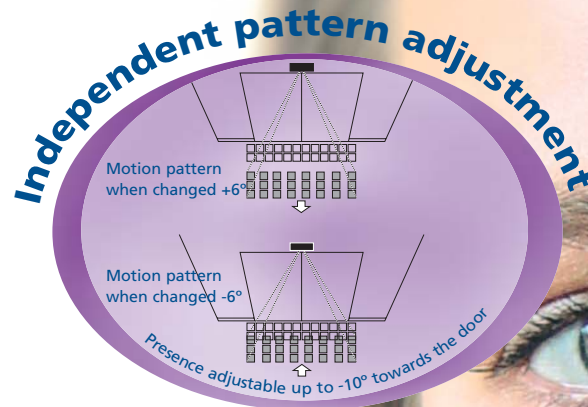
By using easily set switches and shutters, the sensor can be quickly adjusted for many different applications. No external set-up device is needed.

All conditions

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

Quality

Optex automatic door sensors guarantee premium performance and include a 3-year full replacement warranty.

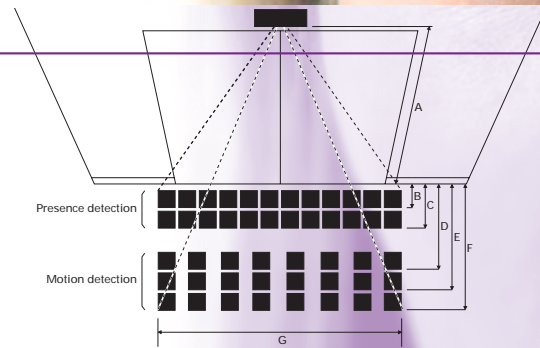


Active Infrared Door Sensor

Specifications

| | |
|--------------------------------|--|
| Model | Horizon-I/Horizon-II |
| Mounting height | 6'7" (2.0 m) - 9'10" (3.0 m) |
| Detection area adjustments | Motion detection angle $\pm 6^\circ$ Presence detection angle $\pm 10^\circ$ For all other adjustments see manual |
| Detection method | Active infrared (presence detection type) |
| Power supply | 12 - 30V AC/DC |
| Current draw | 150mA max. |
| Power/Operator indicator left | Green: Standby Red blinking: 1 st Row detection active Red: 2 nd Row detection active |
| Power/Operator indicator right | Orange: Motion detection active None: Standby Yellow: Installation mode |
| Output contact | Horizon-I: Form C relay 50V, 0.3A (resistance load) Horizon-II: Form C relay (motion) & form B (safety) 50V, 0.3A (resistance load) |
| Relay hold time | Motion: 0.1s / presence: 0.5s |
| Response time | < 0.3s |
| Operating temperature | -4°F - +131°F (-20°C - +55°C) |
| Dimensions | 264 x 70 x 35 mm (w x h x d) |
| Weight | 255 g (9oz) |
| Accessories | 3 m Connection cable with plug, 2 mounting screws, mounting template, area adjustment tool, narrow prism |
| Available colors | Black (Horizon-I/II (BL)) and silver (Horizon-I/II (S)) |

Detection area chart



| Mounting height A | 2.20 | 2.50 | 2.70 | 3.00 |
|---|----------|------|------|------|
| Area depth B (presence detection) | 0.13 | 0.15 | 0.16 | 0.18 |
| Area depth C (presence detection) | 0.45 | 0.51 | 0.55 | 0.61 |
| Area depth D (motion detection) | 0.90 | 1.02 | 1.10 | 1.23 |
| Area depth E (motion detection) | 1.30 | 1.48 | 1.59 | 1.77 |
| Area depth F (motion detection) | 1.90 | 2.16 | 2.33 | 2.59 |
| Area width G (motion detection) | 2.50 | 2.84 | 3.07 | 3.41 |
| Distance between door leaf and mounting surface | variable | | | |

The actual detection area may differ according to the size/material/entry speed of the object and the installation environment.

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