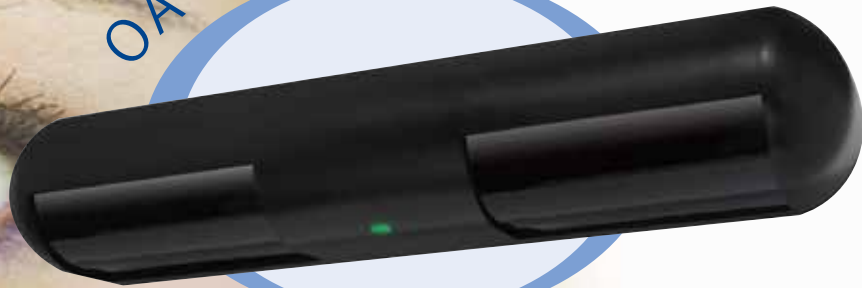




Active infrared Door Sensor

OA-6500



Reliable
Easy installation
Quality
Infinity
Safety
Threshold safety
Advanced
Side screen safety
Active infrared presence detection
Flexible
Certified
Monitored
Sensitivity

The Optex OA-6500 is the new active infrared door sensor standard for use on industrial doors up to a mounting height of 6,5 meter. The OA-6500 is developed as a combination sensor for safety and activation, the active infrared presence detection protects against early closing of the door while the activation area activates the door when entering the detection area. The Optex OA-6500 meets market requirements in a variety of industrial door applications.

Combination

The OPTEX OA-6500 is based on active infrared technique, combining activation and safety into one sensor. By using the unique OPTEX presence detection technique the OA-6500 series provides maximum safety around the threshold of an industrial door and offers, at the same time, an extra large motion detection area for door activation with its maximum installation height up to 6.5m.

Suitable for industrial applications

The OPTEX OA-6500 has a lot of functions optimized for industrial doors.

- The 1st row equipped with door cancel function reduces the malfunction caused by the door movement.
- The activation & safety outputs can be selected from N.C. and N.O. simply by selecting the dipswitches.
- The automatic infinite presence detection increase safely and avoid unwanted door opening due to sudden change in floor condition.

Motion detection

The large detection area provides fast detection for any traffic, including trucks, approaching from any angle. The sensor's enhanced pattern depth enables it to detect objects farther away and allows the door to open conveniently. The presence and motion detection area's can be adjusted independently.

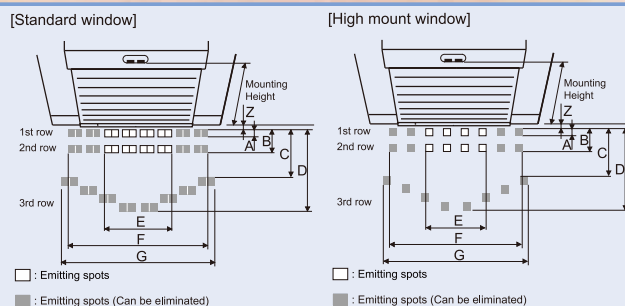
Easy adjustment

Installation time can be reduced to a minimum by using easily set switches and trimmers, therefore the sensor can be quickly adjusted for many different applications. To adjust the presence detection area the use of an OPTEX Infrared finder is recommended.

Active infrared Door Sensor

Specifications	Model	OA-6500
Colour	Colour	Black
Mounting height	Mounting height	2.5 m(8'2") to 6.5 m(21'4")
Detection area	Detection area	See detection area
Detection method	Detection method	Active infrared reflection method (all presence detection)
Depth adjustment	Depth adjustment	3rd row: +30° to +50° 1st and 2nd rows -15° to +5°
Power supply	Power supply	12 to 24V AC/DC
Power consumption	Power consumption	<2.5W (<3.5VA at AC)
Operation indicator	Operation indicator	Green / stand-by Red / 1st row detection Orange / 2nd and 3rd rows detection
Activation Output	Activation Output	When 3rd row detects N.C./N.O. selectable 50V0.3A max. (resistance load)
Safety Output	Safety Output	When 1st and 2nd row detects N.C./N.O. selectable 50V0.3A max. (resistance load)
Relay hold time	Relay hold time	Approx. 0.5 sec.
Operating temperature	Operating temperature	-20° C to +55° C
Weight	Weight	600g
Accessories	Accessories	1 Operation manual 2 Mounting screws 1 Mounting template 1 High mount window 1 Cable 4 m 1 Protection sticker

Detection area chart



Mounting height	Standard window			High mount window	
	2.50 (8'2")	3.50 (11'6")	4.50 (14'9")	5.50 (18'1)	6.50 (21'4")
Area depth A	0.15 (6")	0.21 (8")	0.28 (11")	0.34 (1'1")	0.40 (1'4")
Area depth B	0.56 (1'10")	0.79 (2'7")	1.01 (3'4")	1.24 (4'1")	1.47 (4'10")
Area depth C	0.68 (2'3")	0.96 (3'2")	1.24 (4'1")	1.51 (4'11")	1.79 (5'11")
Area depth D	1.34 (4'5")	1.87 (6'2")	2.41 (7'11")	2.94 (9'8")	3.48 (11'5")
Area width E	1.53 (5'1")	2.15 (7'1")	2.76 (9'11")	2.79 (9'2")	3.30 (10'10")
Area width F	3.64 (11'11")	5.10 (16'9")	6.56 (21'7")	7.23 (23'9")	8.55 (28'1)
Area width G	3.84 (12'7")	5.38 (17'8")	6.91 (22'8")	7.62 (25')	9.01 (29'7")
Area depth Z	0.15 (6")	0.22 (9")	0.28 (11")	0.34 (1'1")	0.41 (1'4")

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