OA-Axis I/II

Active Infrared activation and safety

The Optex OA-Axis series is the new automatic door standard for use on sliding doors based on active infrared technique. The OA-Axis series is developed as a combination sensor for threshold safety and activation. The OA-Axis T is in compliance with the latest European and local regulations as prEN-12650 and DIN-18650, tested and approved by the German test organisation TÜV. Due to its variety in output options the OA-Axis series meets the requirements in various markets.

LOOKING FOR THE MANUAL? IT'S AVAILABLE ON WWW.OPTEX.NL

NOT SURE THIS IS THE PRODUCT YOU NEED? TRY WWW.OPTEX.NL!

COMBINATION

The Optex OA-Axis series is the world first door sensor based on only active infrared technique, combining activation and safety into one sensor. By using the unique Optex presence detection technique the OA-Axis series provides maximum safety, around the threshold and offers at the same time a large motion detection area for the door activation.

SAFETY

The active infrared presence detection of the OA-Axis series can be set very accurately and can be moved 6° towards or away from the door. The installation of safety beams is no longer mandatory. The sensor detects a person or object and holds the door open as long as they are in or near the threshold area, even if they stop or pause. The Optex OA-Axis T is tested and approved by the German test organization TÜV and in compliance with the German DIN 18650 and the preliminary European Norm prEn 12650.

MOTION DETECTION

The large detection area provides 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.

VARIETY

By offering different types of output contacts the OA-Axis series meets the requirements and local standards in many different markets.
OA-Axis I: 1 relay output for activation and safety.
OA-Axis II: 1 relay for safety and a second relay for motion/activation
OA-Axis T: 1 relay for motion and activation and an Opto coupler (NPN) in/output for safety.

Easy adjustment: Installation time can be reduced to a minimum by using easily set switches and shutters, therefor 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.

QUALITY

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

OA-Axis I/II

SPECIFICATIONS

Model	OA-Axis I / OA-Axis II
Mounting height	up to 3.5m
Detection angle adjustments	1st – 3rd rows -6° / +6° 4th and 5th rows +26° / +44°
Detection method	Active infrared reflection
Power supply	12 – 24V AC ±10% (50/60Hz) 12 – 30V DC ±10%
Power consumption	OA-Axis I:
LED Operating indicator	See installation manuals
Voltage	5 to 50VDC, Current 100 mA max. Dark current 600 nA max.
Output (OA-Axis I)	Form C relay, 50V, 0.3A max.
Output (OA-Axis II)	1st-3rd row Form C relay 50V 0.3A max. (resistance load) 3rd-5th row Form C relay 50V 0.3A max. (resistance load)
Output hold time	Approx. 0.5s
Response time	< 0.3 sec
Operating temperature	-20ºC – +55ºC
Weight	320g
Accessories	• 3 m connection cable • 2 mounting screws • 1 mounting template • 1 area adjustment tool
Recommended accessory	Optex Infrared finder
Available colours	Black and silver

DETECTION AREA
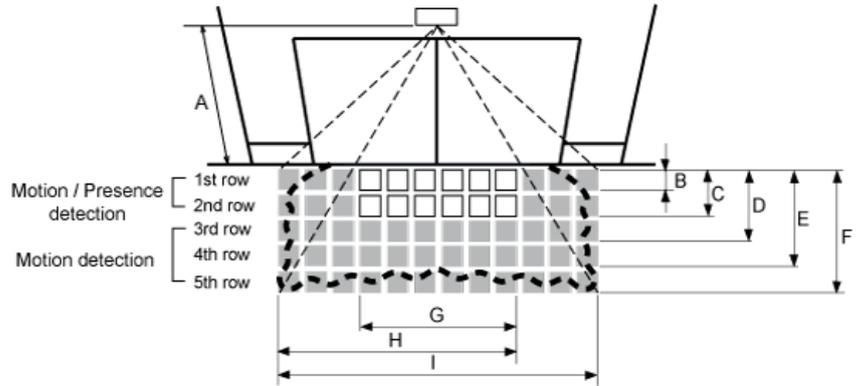
Mounting height A	2.20	2.50	3.00	3.50
Area Depth B	0.14	0.16	0.20	0.23
Area Depth C	0.42	0.48	0.58	0.67
Area Depth D	0.82	0.93	1.10	1.30
Area Depth E	1.35	1.54	1.85	2.16
Area Depth F	1.90	2.17	2.60	3.03
Area Width G	1.33	1.51	1.81	2.11
Area Width H	2.05	2.32	2.79	3.26
Area Width I	2.78	3.15	3.79	4.42

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