

Active infrared **Door Sensor**



Reliable

Easy installation

Advanced Threshold safety

Quality Safety

Act ve infrared Flexible Monitored

presence Certified Sensitivity

detection

The Optex OA-Axis series is the new active infrared door sensor standard for use on automatic sliding doors. 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 prEN12650 and DIN18650, tested and approved by the German test organisation TUV. Due to its variety in output options the OA-Axis series meets the requirements in various markets.



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: relay output for activation and safety.
OA-Axis II: one relay for safety and a second relay for motion/activation

OA-Axis T: one relay for motion/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 trimmers, 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.

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Model Mounting height Detection angle adjustments

Detection method Power supply

Power consumption

LED Operating indicator Test input (T-version)

Activation output (T-version) Safety/Test output (T-version) Voltage Dark current Output (OA-Axis I) Output (OA-Axis II)

Output hold time Response time Operating temperature Weight Accessories

Recommended accessory Available colours

OA-Axis I* / OA-Axis II* / OA-Axis T up to 3.5m (I/II) /3.0m (T) 1st - 3rd rows -6° /+6° 4th and 5th rows $+26^{\circ}$ / $+44^{\circ}$ Active infrared reflection 12 - 24V AC \pm 10% (50/60Hz) $12 - 30V DC \pm 10\%$ OA-Axis I: < 3VA OA-Axis II: < 4VA OA-Axis T: < 4VA See installation manuals Opto coupler, Voltage 5 to 30 VDC Current 6mA Max. (30VDC) Form A relay 50V 0.3A max. Opto coupler (NPN), 5 to 50VDC, Current 100 mA max. 600 nA max. Form C relay, 50V, 0.3A max. 1st-3rd row Form C relay 50V 0.3A max. (resistance load) 3rd-5th row Form C relay 50V 0.3A max. (resistance load) Approx. 0.5s <0.3s -20° C-+55° C 320g 3 m Connection cable 2 Mounting screws 1 Mounting template 1 Area adjustment tool Optex Infrared finder

Black and silver

Detection area chart	Motion / Presence detection Motion detectio				
	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.				

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