





BEA Pedestrian

Sensor solutions for sliding doors



Introduction

BEA s.a. has been active in the sector of detection since 1965 and was one of the first companies in the world to launch a Doppler-effect radar sensor on the market specially adapted for automatic doors.

Since then, several solutions have been developed.

Our current range includes solutions specially for **sliding doors**.

These products are divided into 3 categories:

- Solutions for opening and securing doors combining microwave and infrared technology in a single housing.
- Solutions for **opening** doors using microwave technology.
- Safety solutions for doors using active infrared or laser technology.

Complete your catalogue

Further information and instruction sheets are available upon request:

- Sensor solutions for swinging doors
- Sensor solutions for revolving doors



Contact us

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Summary

OPENING & SAFETY SENSORS

VIO-D P6

OPENING SENSORS

MAGIC SWITCH P8

SAFETY SENSORS

IXIO-S P10

Icons







Sliding door

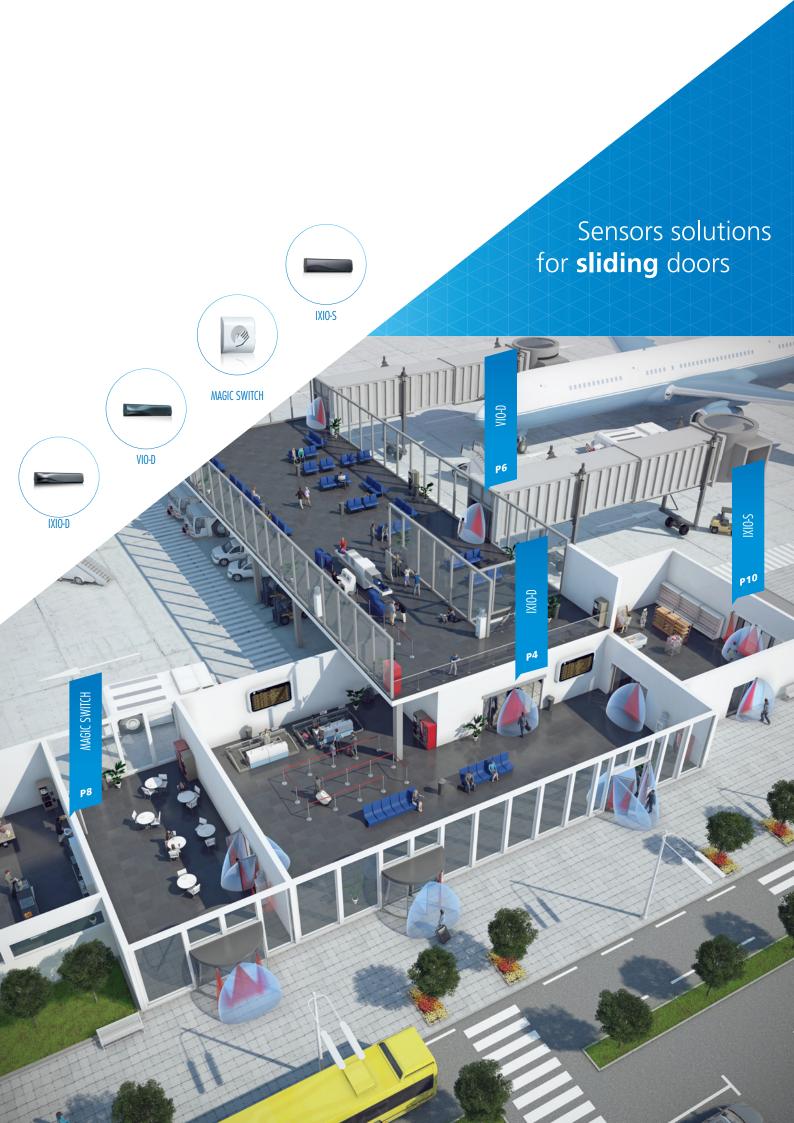
Swinging door

Laser technology

Revolving door

Recommended mounting height

BEA remote control for adjusting the settings



IXIO-D

EN 16005

DIN 18650





OPENING & SAFETY DUAL SENSOR

The **IXIO-D** is a sensor which combines radar technology for the activation of the door with infrared technology for the user protection. The unidirectional radar enables energy savings to be made. The three-dimensional infrared curtain protects people from any contact with the doors.

FEATURES

Unidirectional

Due to unidirectional sensors, doors can close earlier and their opening cycle is shorter, which reduces heat losses in the building and saves energy. This also optimizes the "interlocking doors" function.

Infrared curtains

48 high-density infrared spotlights from 2 curtains protect users from any contact with the doors.

A 32-bit microprocessor optimizes the information process coming from the environment, ensuring a stable performance throughout the time of the year.

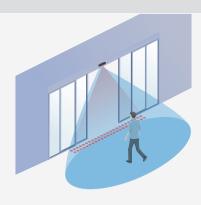
LCD

Intuitive configuration with an LCD screen displaying texts and symbol (LCD graphics).

Safety

4 red spotlights visible on the ground to adjust the angle of the failsafe curtain.

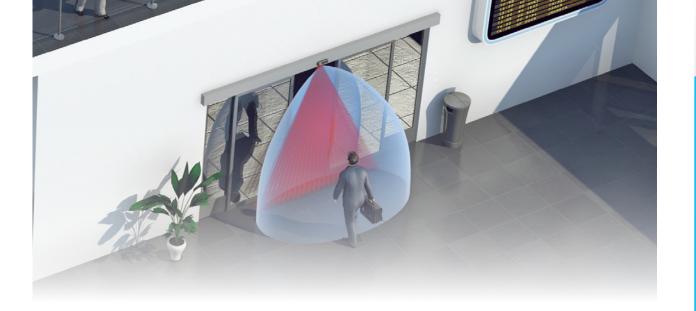




Double leaf sliding doors



Single leaf sliding doors



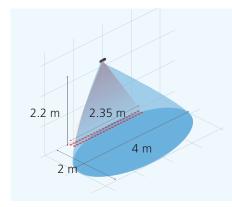
Technology	MOTION Microwave doppler radar PRESENCE Active infrared with background analysis
Mounting height	from 2 m to 3.5 m
Dimensions	269 mm (L) × 58 mm (H) × 57 mm (W)
Norms	R&TTE 1999/5/EC EMC 2004/108/EC MD 2006/42/EC ROHS 2002/95/EC EN 12978 EN ISO 13849-1:2008 PL «d» CAT. 2*** EN ISO 13849-1:2008 PL «c» CAT. 2*** EN 16005:2012 Chapter 4.6.8. DIN 18650-1:2010 Chapter 5.7.4. AutSchR***

- *** Only applicable for frequency and current source output
- **** Under the condition that the door control system monitors the sensor at least once per door cycle

EASE OF INSTALLATION

- Intuitive configuration thanks to an LCD screen and/or a BEA remote control.
- LCD graphics screen with choice of language.
- 10 adjustment options for the IR curtains.
- Lateral orientation from -15° to +15° for the radar antenna.
- 4 infrared spotlights visible on the ground for the easy adjustment of the failsafe curtain.
- Plug, push & go.

DETECTION RANGE





Area detection radar 4 m × 2 m @ 2.2m

LCD graphics

VIO-D

EN 16005





The **VIO-D** combines a motion radar sensor for opening the door with a double failsafe active infrared curtain for the protection of users, in accordance with the EN 16005 standard.

The unidirectionality of the VIO-DT1 enables savings to be made while the three dimensional aspect of the curtain, without safety beams, prevents people are from any contact with the doors.

FEATURES

Simple adjustments using DIP-Switches and potentiometer.

Enhanced energy performance of buildings thanks to the unidirectionality of the VIO-DT1 radar, which identifies the movements of people or objects approaching and filters out those receding: the door closes sooner and reduces thermal losses.

Substantial protection of individuals thanks to the two 24-infrared spot failsafe curtains (EN 16005, French Order).

High levels of active infrared immunity.





APPLICATIONS



Double-leaf sliding doors

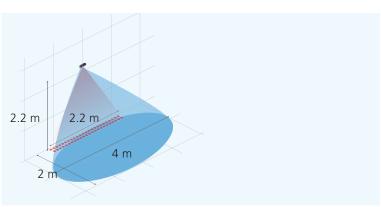


Technology	MOTION Microwave doppler radar PRESENCE Active infrared with background analysis
Mounting height	From 1.8 m to 3 m
Dimensions	270 mm (L) × 49 mm (H) × 58 mm (W)
Norms	R&TTE 1999/5/EC EMC 2004/108/EC MD 2006/42/EC RoHS 2002/95/EC EN 12978 ; EN ISO 13948-1 :2008 PL « c » CAT.2 EN 16005 :2012 Chapter 4.6.8

EASE OF INSTALLATION

- Adjustment of the field size using a potentiometer.
- Settings using 4 DIP-Switches.
- Positioning adjustment of the infrared curtains with adjustment screws.

DETECTION RANGE



MAGIC SWITCH





The **MAGIC SWITCH** is an intentional contactless microwave sensor. Its main use are hygienic applications where the lack of contact with the sensor is required and also comfort reasons in hospital environments, hotels, restaurants, in the retail and pharmaceutical industries and in logistics.

FEATURES

Concealed installation and homogeneous detection thanks to the radar technology.

Detection area adjustable between 10 and 50 cm.

Possibility of keeping the door open with the switch mode.

Easy opening solution for low energy doors used by people with disabilities.





APPLICATIONS



Hygienic opening

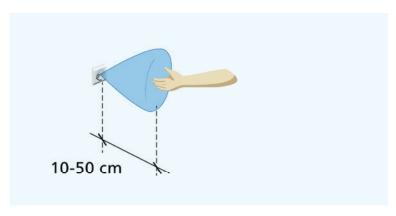


Technology	MOTION Microwave doppler radar
Dimensions	Without front cover : 40 mm (L) \times 50 mm (H) \times 32 mm (W) With front cover : 84 mm (L) \times 84 mm (H) \times 45 mm (W)
Norms	R&TTE 1999/5/EC EMC: 2004/108/EC

EASE OF INSTALLATION

- Adjustment of detection area with potentiometer.
- Switch or pulse mode with DIPswitches.
- Visible housing in option.

DETECTION RANGE



IXIO-S

EN 16005

DIN 18650



INFRARED TECHNOLOGY



INFRARED SAFETY SENSOR

IXIO-S is an active infrared presence sensor. The tridimensional area of its infrared curtain protects the users from any contact with the doors. Adjustment is made easier with an LCD screen offering 10 different widths of curtains, to cover the full travel area of the door.

FEATURES

Configuration

10 possible widths of IR curtains, for optimum coverage of the door opening.

Infrared curtain

48 high-density infrared spotlights from 2 curtains protect users from any contact with the doors.

A 32-bit microprocessor optimizes the information process coming from the environment, ensuring a stable performance throughout the time of the year.

LCD

Intuitive configuration with an LCD screen displaying texts and symbols (LCD graphics).

Safety

4 red spotlights visible on the ground to adjust the angle of the failsafe curtain.







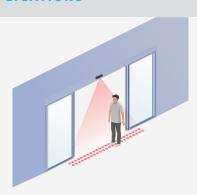
Sliding doors

oors

te control

2 m 2

APPLICATIONS



Double leaf sliding doors



Curved doors



Technology	PRESENCE Active infrared with background analysis
Mounting height	from 2 m to 3.5 m
Dimensions	209 mm (L) × 58 mm (H) × 47 mm (W)
Norms	EM C 2004/108/EC MD 2006/42/EC RoHS 2002/95/EC EN 12978; EN ISO 13849-1:2008 PL «c» CAT. 2 EN 16005:2012 Chapter 4.6.8. DIN 18650-1:2010 Chapter 5.7.4.

EASE OF INSTALLATION

- Intuitive configuration thanks to an LCD screen and/or a BEA remote control.
- LCD graphics screen with choice of language.
- 10 adjustment options for the IR curtains.
- 4 infrared spotlights visible on the ground to enable easy adjustment of the failsafe curtain.
- Plug, push & go.

DETECTION RANGE



Infrared detection field size according to EN 16005: 2.35 m @ 2.2 m (for immunity values 2 and 3)* 2.45 m @ 2.2 m (for immunity value 1)*

LCD graphics

FOR FURTHER INFORMATION ABOUT THE BEA RANGE OF PRODUCTS

www.**bea**.be

www.bea-pedestrian.be

SENSOR SOLUTIONS FOR SLIDING DOORS

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