



EN



BEA Pedestrian

Sensor solutions for sliding doors



OPEN UP NEW HORIZONS

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

BEA sa

LIÈGE Science Park
Allée des Noisetiers 5
4031 Angleur
Belgium

T +32 4 361 65 65

F +32 4 361 28 58

info@bea.be

www.bea.be

Summary

OPENING & SAFETY SENSORS

IXIO-D **P4**

VIO-D **P6**

OPENING SENSORS

MAGIC SWITCH **P8**

SAFETY SENSORS

IXIO-S **P10**

Icons



Microwave technology



Infrared technology



Dual technology
(microwave & infrared)



Laser technology



Sliding door



Swinging door



Revolving door



Recommended mounting
height



BEA remote control
for adjusting the settings

Sensors solutions for **sliding** doors



IXIO-S



MAGIC SWITCH



VIO-D



IXIO-D



MAGIC SWITCH
P8

VIO-D
P6

IXIO-D
P4

IXIO-S
P10

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.



DUAL TECHNOLOGY
(MICROWAVE & INFRARED)



Sliding doors



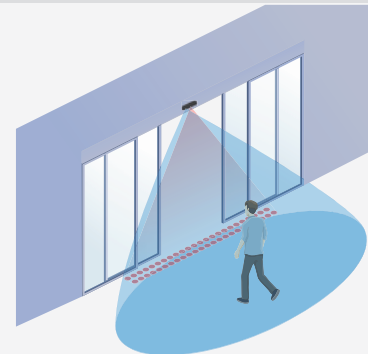
Remote control



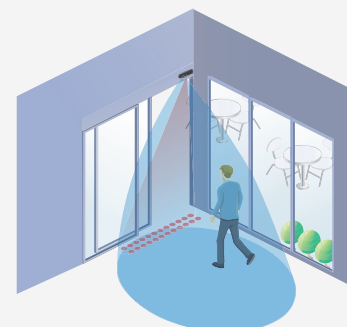
2 m 20



APPLICATIONS



Double leaf sliding doors



Single leaf sliding doors



TECHNICAL SPECIFICATIONS

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***

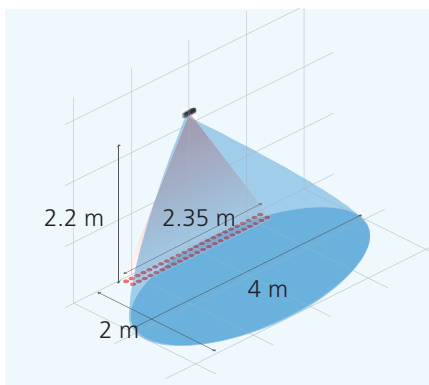
*** Only applicable for frequency and current source output

**** 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 $+15^\circ$ 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

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)*

* including test body CA

LCD graphics

VIO-D

EN 16005



OPENING & SAFETY DUAL SENSOR

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.



DUAL TECHNOLOGY
(MICROWAVE & INFRARED)



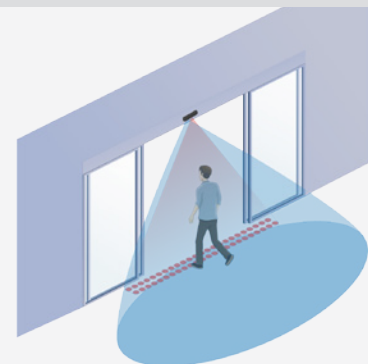
Sliding doors



2 m 20



APPLICATIONS



Double-leaf sliding doors



TECHNICAL SPECIFICATIONS

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

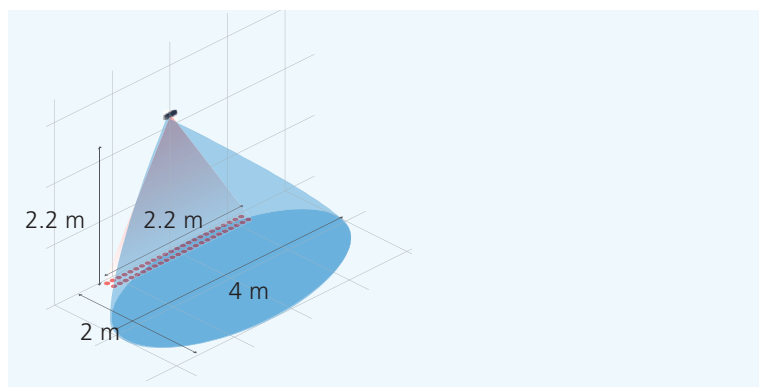
EN 12978 ; EN ISO 13948-1 :2008 PL « c » CAT.2

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



Radar area 4 m × 2 m and infrared area 2.2 m × 0.5 m @ 2.2 m

MAGIC SWITCH



CONTACTLESS INTENTIONAL SENSOR

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.



MICROWAVE
TECHNOLOGY



Sliding doors



Swinging door



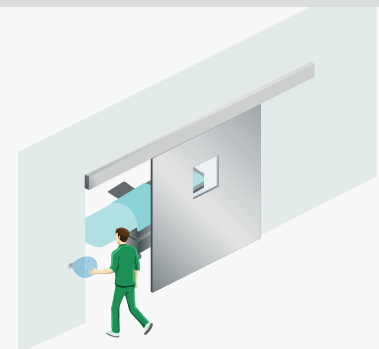
Revolving door



1m20



APPLICATIONS



Hygienic opening



TECHNICAL SPECIFICATIONS

Technology

MOTION

Microwave doppler radar

Dimensions

Without front cover :

40 mm (L) × 50 mm (H) × 32 mm (W)

With front cover :

84 mm (L) × 84 mm (H) × 45 mm (W)

Norms

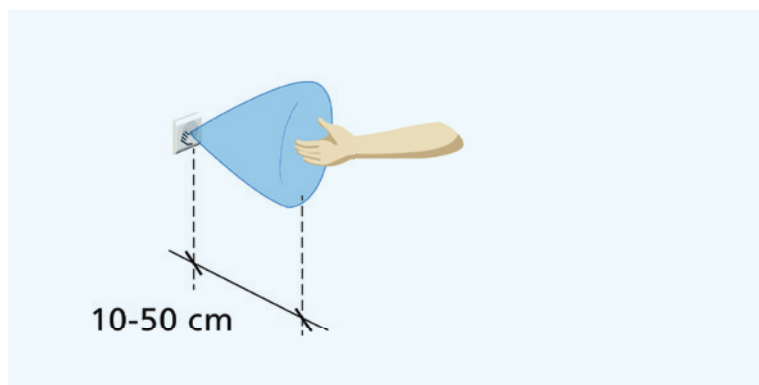
R&TTE 1999/5/EC

EMC: 2004/108/EC

EASE OF INSTALLATION

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

DETECTION RANGE



Detection area of 10 cm to 50 cm

IXIO-S

EN 16005

DIN 18650



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.



INFRARED
TECHNOLOGY



Sliding doors



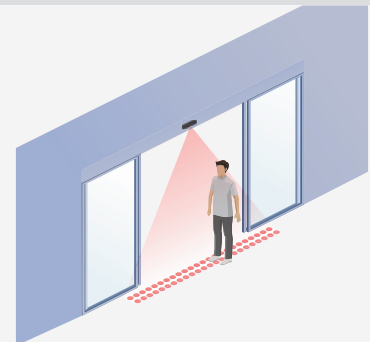
Remote control



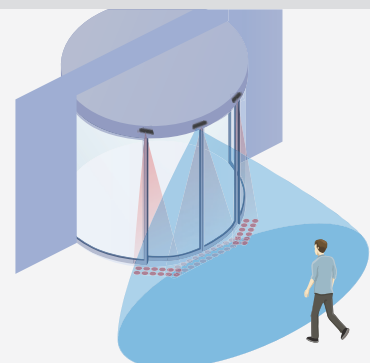
2 m 20



APPLICATIONS



Double leaf sliding doors



Curved doors



TECHNICAL SPECIFICATIONS

| | |
|------------------------|--|
| 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

* including test body CA



SENSOR SOLUTIONS FOR SLIDING DOORS

AUB Limited
Unit A, 12/F, Hung Mou Industrial Building,
62 Hung To Road, Kwun Tong,
Kowloon, Hong Kong

Tel : +852 2375 6110
Fax : +852 2406 2602

Email : enquiry@aub.com.hk
www.aub.com.hk



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