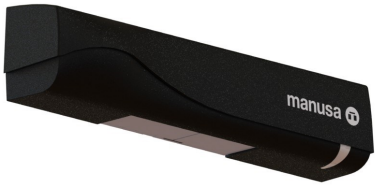
manusa

TRANSLATED DOCUMENT

Data Sheet

DDS HYBRID SENSOR



1 - DESCRIPTION

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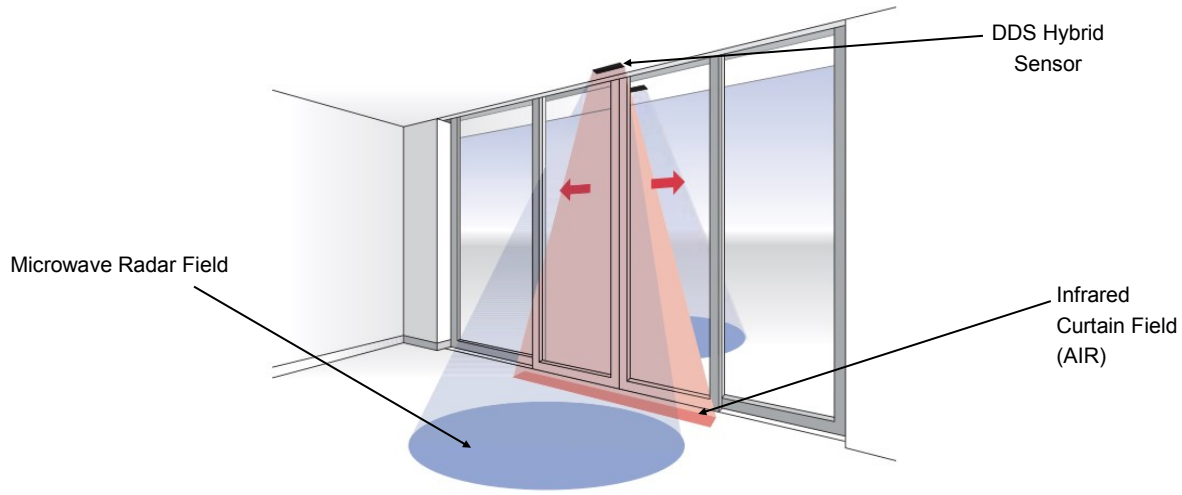
The MANUSA **DDS Hybrid Sensor** is an innovative detector for automatic sliding doors that combines microwave technology to open the door and active infrared technology (**AIR**) for pedestrian protection, thus demonstrating the inherent advantages of both technologies:

- The sensor includes a **unidirectional** microwave radar that only detects the movement of objects that approach the door, allowing the door to close rapidly when the movement is in the opposite direction. In this way, the door remains open for less time, significantly contributing to the **energy efficiency** of the building.
- The microwave radar offers a **wide motion detection area,** rapidly detecting any type of traffic approaching from any angle.
- The active infrared presence detection (AIR) from the DDS Hybrid sensor **safely** offers the ability to detect a person or object and hold the door open while the person remains in the threshold area, even if the person is not in motion. The detection area offers **precise adjustment** and a wide detection field.

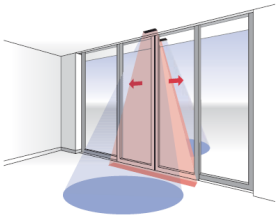
The size of the detection area and the rest of the parameters can be digitally adjusted very easily thanks to the sensor's LCD display.



The sensor uses four visible beam spots on the floor to set the angle of the safety curtain.

2 - VERSIONS

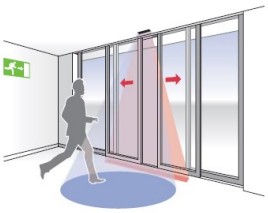
DDS–B Hybrid Sensor



Standard sensor suitable for all types of applications in accordance with EN16005, **except on the inside of doors situated along** escape routes and emergency exits.

This sensor is equipped with safety detection function supervision. Only compatible with Gama Visio and Activa operators. Check for compatibility with other operators.

DDS–A Hybrid Sensor



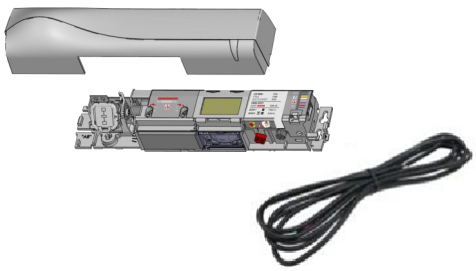
Sensor suitable for all types of doors, including the inside of doors situated along escape routes and emergency exits, in accordance with EN16005.

This sensor is equipped with safety detection function supervision.

In a typical installation of a door situated along an escape route, the inside sensor will be type DDS-A and the outside one will be type DDS-B. Only compatible with Visio operators.

3 - COMPONENTES

The DDS Hybrid sensor is comprised of:



Cover

Sensor

Connection cable

4 - ACCESSORIES

The DDS Hybrid sensor has the following specific accessories:

CA: Recessed Kit

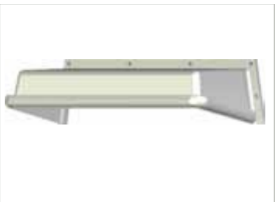
Accessory allowing the sensor to be embedded in the door cover or in a false ceiling to minimise the visual impact.

BA: Top Bracket

Bracket to secure the sensor to the ceiling.

RA: Anti-rain Cover

Accessory to protect the sensor from inclement weather.



5 - TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Technology	**Active infrared + Double field radar (24.150 GHz)**
Voltage	**12 - 30 V DC**
Power consumption	**2,5W (210 mA @ 12V)**
Outputs	**Open standard potential free contact (optocoupled)**
Mounting height	**2 m - 3.5 m**
Presence detection area (AIR)	**2 x 0.2 m to 2.2 m high**
Motion detection area with 'wide radar field width' at a 2.2m height	**4 m x 2 m**
Motion detection area with "narrow radar field width' at 2.2m height	**2 m x 2.5 m**
Ambient working temperature:	**-25ºC up to +55ºC**
Max. relative humidity:	**95% without condensation**
Protection type:	**IP54**
Dimensions:	**265 x 60 x 55 mm**
AIR performance level in accordance with EN 13849	**Cat. 2 PL c**

APPLICABLE STANDARDS AND DIRECTIVES

Safety in Use of Automatic Doors	**UNE-EN 16005**
Safety devices for Automatic Doors	**UNE-EN 12978**
Electromagnetic Compatibility Directive	**2004/108/CE**
Machinery Directive	**2006/42/CE**

NOTE: The characteristics detailed in this document are for information only and do not represent any contractual obligation.

The manufacturer reserves the right to make modifications without prior warning.

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