

DualSense D

Sensor for activating and safeguarding automatic sliding doors including emergency exits in accordance with EN 16005 and DIN 18650



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Technology	Active infrared (AIR), radar
Mounting height	min. 1.8 m, max. 4.0 m EN 16005 up to 3.0 m DIN 18650 up to 3.0 m
Dimensions of field/spot on the floor	See the specifications for mounting height 2.20 m below
Dimensions of AIR field	max. 2.00 × 0.20 m
Dimensions of AIR spot	30 × 30 mm
Number of AIR spots	2 rows with 12 spots each
Performance level AIR	PLd, Cat. 2 (EN ISO 13849-1)
Dimensions of wide radar field (W × L)	min. 1.90 × 1.00 m, max. 4.00 × 2.00 m
Dimensions of narrow radar field (W × L)	min. 1.00 × 4.00 m, max. 2.00 × 4.00 m
Radar transmission frequency	24.2 GHz
Radar transmission output	< 13 dBm
Radar performance level	PLd, Cat. 2 (EN ISO 13849-1) for frequency or voltage output

Electrical data

Supply voltage	11.5 – 32 V DC
Operating current	max. 120 mA at 24 V
Inrush current	max. 240 mA
Test input	Automatic recognition
Response time to test signal	< 10 ms
Test input, high level	5 – 32 V DC, max. 4 mA
Infrared output	Solid state relay, max. 40 mA, max. 34 V DC / 24 V AC
Radar output	Solid state relay, max. 40 mA, max. 34 V DC / 24 V AC
Frequency for radar output	Pulse signal 100 Hz ± 10 %

Radar voltage output	Open-circuit voltage 4.5 V, min. 3.3 V @ 10 mA (typical load with 3 optocouplers in series)
Connection type (standard)	3 m cable with plug-in connector

Mechanical data

Housing material	ABS / PA
Housing color	black, silver, white
Dimensions (L × W × D)	252 × 61 × 51 mm
Weight	250 g
Protection class	IP54 (EN 60529)

Ambient conditions

Ambient temperature	min. –20 °C, max. +60 °C
Relative Humidity	max. 95 %, non-condensing

Box contents

Sensor with housing, mounting material, drilling template, control cable, DoC document, manual

Notice on conformity

	MD 2006/42/EC	RED 2014/53/EU
	RoHS 2011/65/EU	

Technical documentation



You will find all documents on the manufacturer website
www.bircher.com

If you have any questions about the device, please contact us:

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BBC Bircher Smart Access

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