

4SAFE

SAFETY SENSOR FOR SWINGING AND REVOLVING DOORS

Commercial sheet



QUIET AND STRONG

DESCRIPTION

The **4SAFE** is a failsafe active infrared sensor which functions by distance measuring.

Onboard of swing and revolving door leaves, it brings safety to the users by avoiding contacts with the doors in motion.

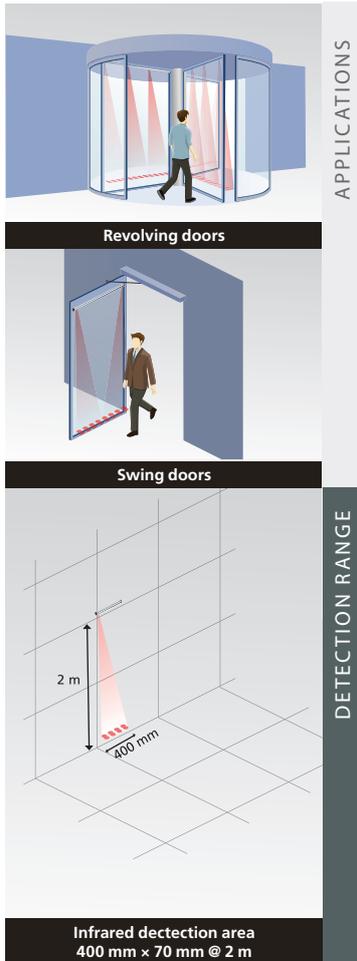
The three-dimensional area of the **4SAFE** makes it particularly suitable for protecting people with disabilities.

FEATURES

- High user safety thanks to a detection area of 40 cm in front of the leaf at 2 m high with 4 groups of 2 active infrared spots.
- Easy mounting with daisy-chain up to 6 modules, to cover the whole door width.
- Easy wiring for swing doors thanks to the special design of the 4SAFE : every module has two selectable outputs for safety at opening or closing, with just one cable.
- Adaptation to all floor types, even the most contrasted one (stainless steel plate, grids, water puddles, snow-covered ground...).
- Easier logistics: each module recognises its status automatically and selects it in the daisy-chain.



4SAFE ■



APPLICATIONS

- Safety of swing and revolving doors.

EASE OF INSTALLATION

- Pressing the push button once is enough to adjust the sensor for the usual installation heights.
- Fine tuning with 4 DIP-switches.

ACCESSORIES



TECHNICAL SPECIFICATIONS

Technology	Active Infrared with background suppression
Detection mode	Presence and movement
Number of beams	4
Reflectivity	Min 5% at IR-wavelength of 850 nm
Detection field	400 mm (W) × 70 mm (D) @ 2 m mounting height; 4 spots active
Max. number of modules	4 (up to 6 if 24 V DC)
Supply voltage	12V - 24V AC ± 10 %; 12V - 30V DC -5%/+10% (to be operated from SELV compatible power supplies only)
Max current consumption	95 mA @ 24 V AC/ 70 mA @ 24 V DC; 170 mA @ 12 V AC/ 130 mA @ 12 V DC (MASTER) 85 mA @ 24 V AC/60 mA @ 24 V DC; 180 mA @ 12 V AC/ 113 mA @ 12 V DC (other modules)
Reaction time	64 ms (typical)
Max. presence detection time	Infinite (SWING-configuration) /1 minute (REVOLVING-configuration)
Output	2 relays (free of potential contact)
Max. contact voltage	42 V AC/DC
Max. contact current	1A (resistive)
Max. switching power	30 W (DC) / 60 VA (AC)
Input	1 optocoupler (free of potential contact)
Max. contact voltage	30 V
Voltage threshold	High : >10 V DC; Low : <1 V DC
Mounting height	1.3 m to 3.5 m (according to floor reflectivity)
Dimensions	Sensor module : 300 mm Profile : L* × 43.5 mm (H) × 47.5 mm (D) *L : length of profile according to packaging (see options)
Material	ABS/Aluminium/PC (colour: black)
Protection degree	IP54
Temperature range	-25°C to +55°C
Humidity	0-95 % relative humidity, non condensing
Norm conformity	EMC 2014/30/EU; MD 2006/42/EC; DIN 18650-1 ch. 5.7.4; BS 7036-2*; EN 16005 ch. 4.6.8; EN 12978 + A1; EN 61508; IEC 61496-2; BGR 232; EN ISO 13849-1 Performance Level «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle)

Specifications are subject to change without prior notice.
* max. mounting height for BS 7036-conformity (UK): 3.25 m

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