

1SAFE

SENSOR TO OPEN OR MAKE ALL TYPES OF AUTOMATIC DOOR SAFE

Commercial sheet



WHEN ACCURACY IS IMPORTANT,...

DESCRIPTION

The **1SAFE** is an active infrared sensor operating with background suppression (triangulation). The **1SAFE** sends a narrow infrared beam (35 × 70 mm at a height of 2,20 m).

The **1SAFE** is suitable for all applications where accurate and narrow detection fields are required. It either opens, protects or monitors.

IN PRACTICE

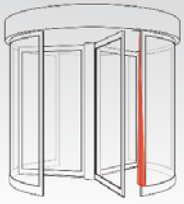
- The **1SAFE** provides safety in the following applications:
 - Sliding door during the opening cycle (risk of crushing).
 - Curved sliding or swing door during the closing cycle (risk of pinching or crushing).
 - It safeguards the potential impact point or "pinch zone" of revolving doors (on unmonitored doors)*.
- The **1SAFE**, as an alternative to pushbuttons, opens an automatic door when:
 - You need a very small detection field (restaurant kitchens, internal train doors, etc.).
- A single **1SAFE** or several in unison will provide safety in revolving air locks.
- The **1SAFE** works vertically (with background) as well as horizontally (if necessary, without background).

RELIABILITY

- The main feature of the **1SAFE** is its ability to track changes in its background and environment.
- The **1SAFE**'s ability to adapt itself to variations in the background and ambient temperature ensures a greater reliability in all situations.

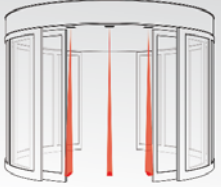
PERFECT FOR ALL DOORS!

* Not in conformity with DIN 18650.



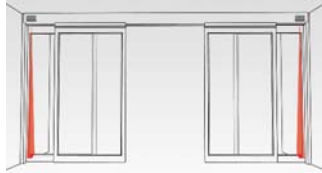
Revolving doors

Safety at the pinching zone



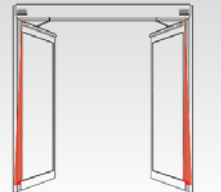
Curved sliding doors

Safety during the closing cycle



Sliding doors

Safety during the opening cycle



Swinging doors

Safety during the closing cycle



Restaurant door



35 × 70 mm (h=2,2 m)

INSTALLATION & ADJUSTMENT

- **PUSH & GO:** for the most common applications and installation heights, a single press on the control button is enough. The sensing area is adjusted automatically.
- **MANUAL MODE:** for special applications (greater height, reflective floors, horizontal applications, etc.), a "manual mode" using an adjusting screw and dip-switch enables precise adjustments of the sensing area.

ACCESSORIES



Spotfinder

Kit 1SAFE SMA
[for surface mounting]Kit 1SAFE BA
[for mounting bracket]

TECHNICAL SPECIFICATIONS

Technology	Active infrared
Detection mode	Presence detection by distance measurement
Detection field	35 mm × 70 mm (at 2,2 m mounting height)
Tilt angle	-4° to +4°
Response time	32 ms - 64 ms (depending on detection speed setting)
Installation height	1,6 m - 3 m (automatic mode) 0,6 m - 3 m (manual mode)
Power supply	12 V - 24 V AC/DC -5% / +10%
Network frequency	50 - 60 Hz
Max. consumption	120 mA @ 24 V AC / 80 mA @ 24 V DC
Standard output	Relay (free of potential contact)
Max. voltage on the contacts	42 V AC/DC
Max. current on the contacts	1 A (resistive)
Max. breaking capacity	30 W (DC) / 60 VA (AC)
Monitoring input	1 optocoupler (free of potential)
Max. contact voltage	30V
Voltage threshold	High state > 10 V; low state <1 V
Holdtime output	0,5 s
Reflective power	Min. 10% long wave infrared of 850 nm
Temperature range	-25°C / +55°C; 0-95% relative humidity
Degree of protection	IP53
Dimensions	
With bracket	144 mm (L) × 52 mm (H) × 43 mm (D)
Without bracket	110 mm (L) × 50 mm (H) × 30 mm (D)
Material of the section	ABS (black)
Length of the main cable	2,5 m
Conformity with standards	Electromagnetic compatibility (EMC) according to 2004/108/EEC

Specifications are subject to change without prior notice.

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