

# 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

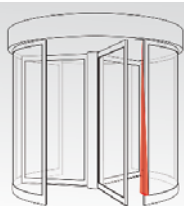
- The **1SAFE** provides safety in the following applications:
  - Sliding door during the opening cycle (risk of crushing).
  - Curved sliding or swing door during the closing cycle (risk of pinching or crushing).
  - It safeguards the potential impact point or "pinch zone" of revolving doors (on unmonitored 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!

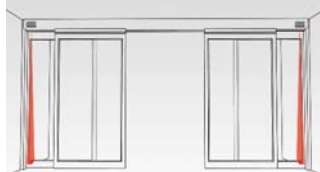
\* Not in conformity with DIN 18650.



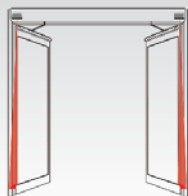
**Revolving doors**  
Safety at the pinching zone



**Curved sliding doors** Safety during the closing cycle



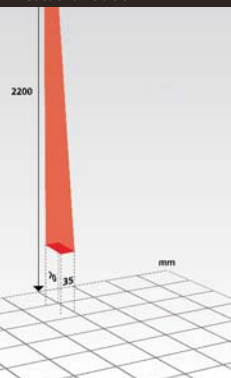
**Sliding doors** Safety during the opening cycle



**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

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

*Specifications are subject to change without prior notice.*

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