

# 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

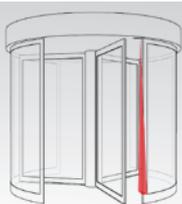
- The **1SAFE** provides safety in the following applications:
  - Sliding door during the opening cycle (risk of crushing).
  - Curved sliding or swing door during the closing cycle (risk of pinching or crushing).
  - It safeguards the potential impact point or "pinch zone" of revolving doors (on unmonitored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

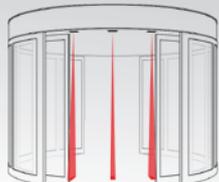
- The main feature of the **1SAFE** is its ability to track changes in its background and environment.
- The **1SAFE**'s ability to adapt itself to variations in the background and ambient temperature ensures a greater reliability in all situations.

PERFECT FOR ALL DOORS!

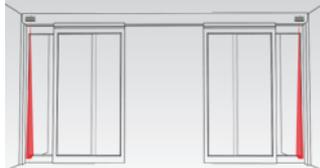
\* Not in conformity with DIN 18650.

**Revolving doors**

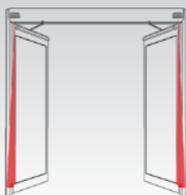
Safety at the pinching zone

**Curved sliding doors**

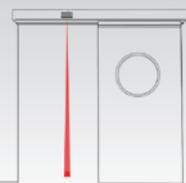
Safety during the closing cycle

**Sliding doors**

Safety during the opening cycle

**Swinging doors**

Safety during the closing cycle

**Restaurant door**

2200

35 × 70 mm (h=2,2 m)

mm

**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)<br>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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