

# TopScan G3

Presence detector for  
automatic doors



## Your added value!

- **Smallest presence detector of its class**
- **User-friendly, solid and simple operation**
- **Easy and significantly faster installation**
- **Mechanically and electrically compatible with previous model**
- **Simple adjustment of scanning range – no tools needed**

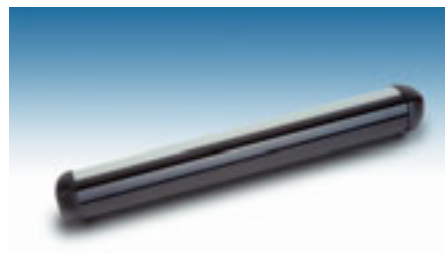
# TopScan G3

Presence detector for automatic doors

## Description

The «TopScan G3» presence detector reliably detects moving and stationary objects. The product's main function is to prevent the door from touching any object, person or animal. TopScan can also be used as an opening impulse generator.

TopScan is the most compact solution of its type and offers a highly user-friendly installation method that saves time and aggravation. The product's stylish aluminium profile – available in a range of colours of cause – goes perfectly with any style of door. The sensors are available in various lengths with different numbers of sensing beams.



## TopScan G3: a new generation of superior door sensors

The technology of the highly successful TopScan G2 has been updated. In this process, great emphasis has been placed on providing a user friendly installation and commissioning procedure, as follows:

- No tools are needed for set-up and adjustment
- Sensing range easy to adjust using the new adjustment wheel
- Precise positioning of angle of inclination along with angle data from the mounting bracket
- Robust handling of patented mounting bracket thanks in large measure to the use of a very secure fastening screw

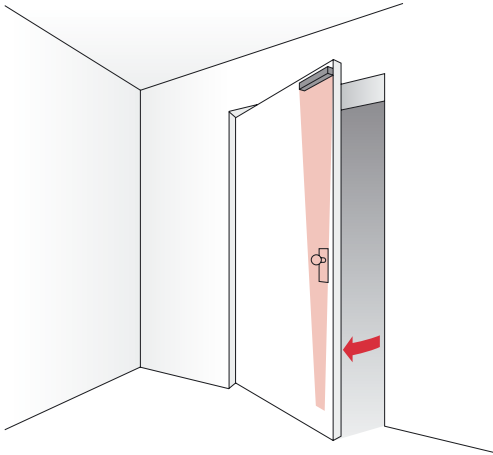


## Product advantages at a glance

- **Most compact presence detector of its type, dovetails perfectly with any style of door**
- **Rapid, versatile and simple application customisation; adjustment wheel for sensing range and DIP switch for operating modes**
- **Ideal for all applications: sensor lengths and number of sensor modules are selectable**
- **Not susceptible to environmental impact (snow and water). Background noise can be blocked out**
- **Robust mechanism allows for installation in harsh factory settings as well**
- **Easy and trouble-free installation**
- **Greatly reduced installation time**
- **Parts simplify the assembly**

## Applications

### Scenario



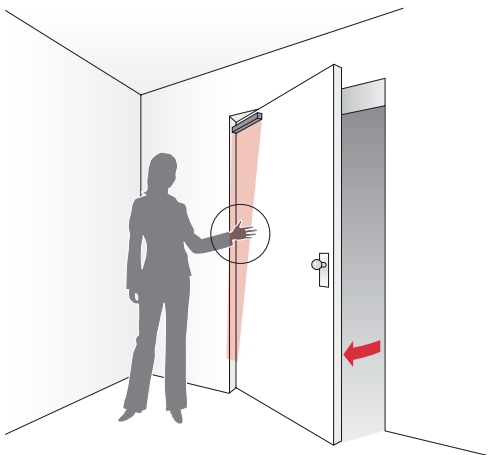
### Solution

The leading edge of the door is a hazard, since it can collide with persons or objects

### The TopScan advantage

«TopScan G3» settings optimally safeguard all edges

### Scenario



### Solution

- The inner edge of the door is a hazard (e.g. fingers can get caught in it)
- «TopScan G3» eliminates this hazard

### The TopScan advantage

«TopScan G3» settings optimally safeguard all edges

### Scenario



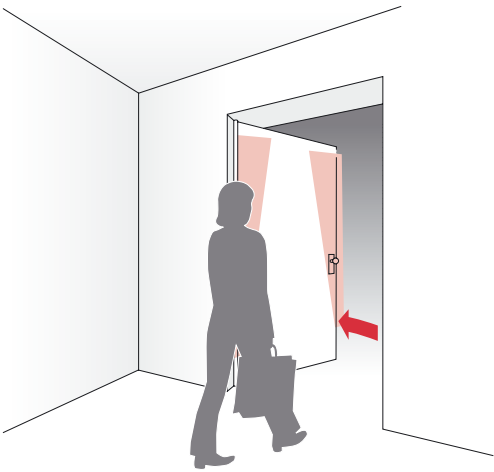
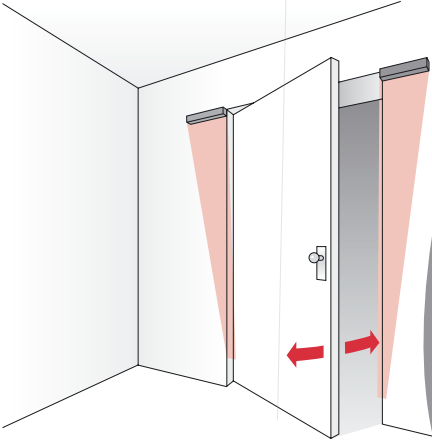
### Solution

The door leaf itself can also collide with objects or persons. TopScan avoids this risk by providing sensing functionality for leading and inner edges of the door leaf, thus providing optimal sensing protection. The drawing shows the door being opened

### The TopScan advantage

- The sensors are available in various lengths and numbers, which means that we have the right sensing solution for every door
- «TopScan G3» settings optimally safeguard all door edges

## Applications



**Technical data**

<b>Detection area</b>	100–2500 mm (3.94"–98.4") 500–2500 mm (19.7"–98.4")	For <b>stationary</b> mode (background analysis) For <b>moving</b> mode (background suppression)
<b>Scanning range setting</b>	Mech. adjustment wheel 1500–2500 mm (59.1"–98.4")	Triangulation principle
<b>Temperature dependence</b>	+60 °C (+140 °F): +10% –20 °C (–4 °F): –10%	Deviation from 20 °C (68 °F) with reference to the scanning range set
<b>Black/White difference</b>	max. 20% White: Larger scanning range Black: Smaller scanning range	Difference between black and white with reference to the scanning range set
<b>Detection area</b>	Approx. 75 mm (2.95") diameter	For a scanning range of 2000 mm (78.74")
<b>Type of light</b>	IREd	Pulsed alternating light 880 nm
<b>Operating voltage</b>	17–30 V DC / 18–28 V AC	
<b>Current consumption</b>	< 110 mA	
<b>Signal output</b>	Relay, changeover contact Max. switching voltage 48V AC/DC Max. switching current 0.5A AC/DC Max. switching capacity 55VA/24W	electrically isolated Nominal current (ohmic load) 1A/ 24V DC For ind./ cap. load, provide spark quenching Ohmic load
<b>Response time on detection</b>	Approx. 30 ms	
<b>Drop-out time after detection</b>	Max. 150 ms Max. 2 s	For <b>stationary</b> mode For <b>moving</b> mode
<b>Response time with test signal</b>	Max. 500 ms	Only possible for DC operation
<b>Test input</b>	With +UB = 17–30 V DC	Only for <b>stationary</b> mode
<b>Operating mode</b>	Moving / stationary	Can be switched over
<b>Function indication</b>	Red LED	Lights up when an object is detected
<b>Connection type</b>	Plug-in screw terminal	6 x 0.25 mm <sup>2</sup> (AWG 23)
<b>Protection class</b>	Suitable for use in acc. with IP52	
<b>Housing material</b>	Aluminium/ABS	
<b>Front cover</b>	PC (polycarbonate) black	
<b>Distance between optical units</b>	150 mm (5.91")	Transmitter/receiver
<b>Operating temperature</b>	–20 °C to +60 °C (–4 °F to +140 °F)	
<b>Storage temperature</b>	–40 °C to +80 °C (–40 °F to +176 °F)	
<b>Weight</b>	45 g (1.59 oz.)	Without housing
<b>Sensor dimensions</b>	198.5 x 31 x 20 mm (7.8" x 1.2" x 0.78")	Length / Width / Height without housing
<b>Housing colour</b>	Silver, black or white	Depending on version
<b>Electromagnetic compatibility</b>	Interference immunity in acc with: EN 61000-6-1, EN 61000-6-2 Emitted interference in acc. with: EN 61000-6-3, EN 61000-6-4	Ⓢ in acc. with EMC directive 89/336 EEC

**Accessories**
**Door connection device**

The door connection device is the optimal and simplest solution for realisation of sensor wiring from the door leaf to the wall. The device is extremely compact and hence inconspicuous. The wire conduit can be cut to measure.



## TopScan G3 ordering information

Item no.	Item designation	No. of sensors	Length	Colour
F518.52100	TopScan G3 1 /31 /330 SR	1	330 mm (13.0")	silver
F518.52200	TopScan G3 1 /31 /330 BK			black
F518.52300	TopScan G3 1 /31 /330 WH			white
F518.52110	TopScan G3 2 /31 /750 SR	2	750 mm (29.5")	silver
F518.52211	TopScan G3 2 /31 /750 BK			black
F518.52311	TopScan G3 2 /31 /750 WH			white
F518.52121	TopScan G3 3 /31 /900 SR	3	900 mm (35.4")	silver
F518.52222	TopScan G3 3 /31 /900 BK			black
F518.52322	TopScan G3 3 /31 /900 WH			white
F518.52111	TopScan G3 1 /31 /750 SR	1	750 mm (29.5")	silver
F518.52210	TopScan G3 1 /31 /750 BK			black
F518.52310	TopScan G3 1 /31 /750 WH			white
F518.52120	TopScan G3 1 /31 /900 SR	1	900 mm (35.4")	silver
F518.52220	TopScan G3 1 /31 /900 BK			black
F518.52320	TopScan G3 1 /31 /900 WH			white
F518.52130	TopScan G3 1 /31 /1000 SR	1	1000 mm (39.4")	silver
F518.52230	TopScan G3 1 /31 /1000 BK			black
F518.52330	TopScan G3 1 /31 /1000 WH			white

Other configuration available by special order



## Ordering information for accessories and individual components

Item no.	Designation	Additional information
F511.55005	Print AIR 16 re	Operating instructions included
K7201.020	Mounting bracket G3	
F518.52900	DLP 6, Door connection device	Door cable conduit and connection box, maximum conduit length 600 mm (26.6"), maximum inner diameter 6 mm (0.24"), material: plastic, colour: black

## Your contact

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