

**Combining technologies.  
Preventing collisions.  
Maximizing performance.**

MotionScan  
Dual-Technology Sensor  
for Automatic Sliding Doors



Your automation, our passion.

 **PEPPERL+FUCHS**

# Open Quickly, Close Safely— MotionScan for Better Performance

The two-in-one MotionScan sensor from Pepperl+Fuchs manages the smooth flow of large numbers of people going through doors, while safely identifying and protecting individuals from accidents. The large radar detection field senses when people approach and opens doors in a timely manner, while the large infrared protection field prevents collisions.



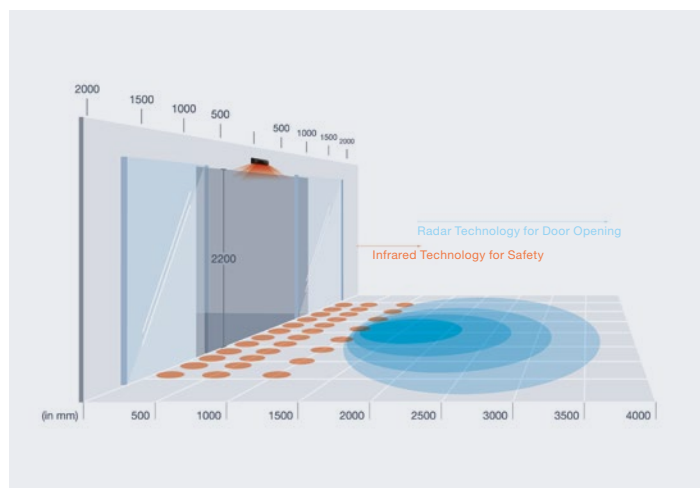
## Early Detection for Quick Door Opening

The high-performance MotionScan radar module emits a pulse that instructs automatic sliding doors to open. The radar detection field of up to 4 x 4 m quickly and reliably senses approaching people, ensuring unrestricted movement even for large groups.

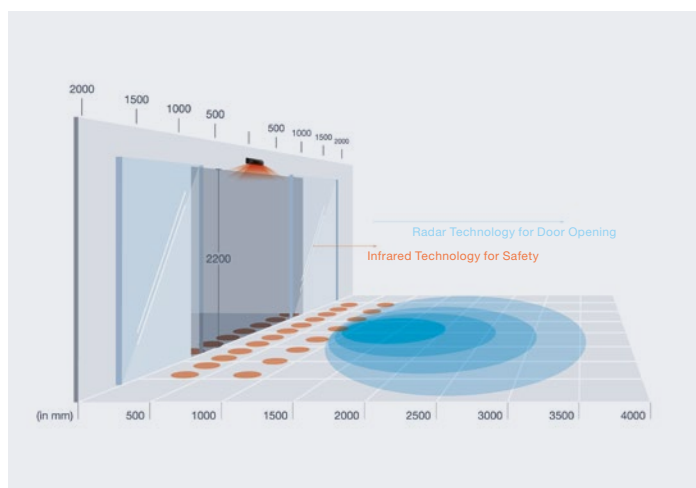
## Increased Safety when Closing Doors

To avoid the danger presented by closing doors, the active infrared sensor built into MotionScan ensures that the leading edge of the door is protected. To provide the highest degree of safety and collision protection, three rows of adjustable infrared emitters are used to create a protection field starting from the door up to a maximum distance of 1.10 m.

## Adjustable Protection and Detection Fields



Infrared protection field in front of the door (EN 16005)



Infrared protection field on both sides of the door



### Reliability in Any Situation

Whether high-gloss marble, stone tiles, or grids—MotionScan works well with various kinds of floor surfaces. The adjustable protection and detection fields, the integrated direction monitoring, as well as the mounting height of up to 3.20 m make MotionScan ideal for a wide range of applications.

### Easy to Install and Operate

With its automatic teach-in function and the installation instructions printed on the sensor, installing and commissioning MotionScan is quick and easy. The operating mode is user-friendly and clearly displayed via a multicolored LED.

#### Technical Data

<b>Mounting height</b>	2 m ... 3.20 m
<b>Operating voltage</b>	12 ... 24 V AC/DC ± 10 %
<b>Functional safety</b>	SIL 2, PL d
<b>Temperature range</b>	-20 °C ... +60 °C
<b>Degree of protection</b>	IP54
<b>Standards</b>	RED 2014/53/EU EN 16005:2012 DIN 18650-1:2010 EN 12978:2003 +A1:2009 EN ISO 13849-1:2015 AutSchR 12/1997

#### Highlights

- Large 4 x 4 m radar detection field and fast response time open doors quickly for a smooth flow of pedestrian traffic
- The highest degree of safety due to the large adjustable infrared protection field
- Reliable operation on various floor surfaces
- Easy to install and user-friendly with automatic teach-in function and a multicolored LED



Additional information is available at [www.pepperl-fuchs.com/motionscan](http://www.pepperl-fuchs.com/motionscan)

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## Explosion Protection

- Intrinsically Safe Barriers
- Signal Conditioners
- Fieldbus Infrastructure
- Remote I/O Systems
- HART Interface Solutions
- Wireless Solutions
- Level Measurement
- Purge and Pressurization Systems
- Industrial Monitors and HMI Solutions
- Electrical Explosion Protection Equipment
- Solutions for Explosion Protection

## Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity