



Scanprotect Opening Sensor

Area surveillance and protection for high performance doors

HÖRMANN

Scanprotect

3D laser for industrial and commercial applications

The Scanprotect sensor uses laser technology, based on analysis of time of flight. It creates a volumetric area in front of the door by generating 7 angled laser curtains. One device alone carries out 3 functions: opening the door, area surveillance and safety. More than just a sensor, it becomes a protective mechanism for the door and the user.

Volumetric coverage

The combination of 7 laser curtains in front of the door makes it possible to measure distance accurately and offers advantages, such as calculation of the size and trajectory of an object.

Door protection

The Scanprotect becomes the door keeper. It detects approaching or parked vehicles accurately in order to prevent any contact with the door.

Energy savings

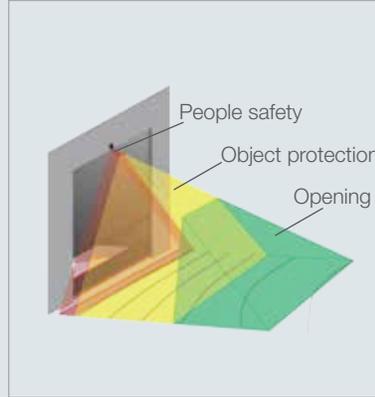
Since it constantly records and follows the trajectory of the object, its height and nature, it filters out parallel traffic and, if necessary, ignores pedestrians. Thanks to the reliability of its presence detection zones, it can reduce the time-lag and guarantee that the door is closed more rapidly.

Independent of the flooring and environment

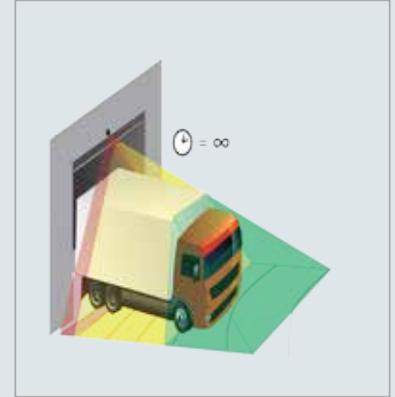
Laser technology offers a unique level of independence when confronted with sources of atmospheric disturbance, such as rain, snow, fog, reflective surfaces, etc. The Scanprotect filters out pedestrians and rejects parallel traffic.

Easy and flexible shaping of detection zone

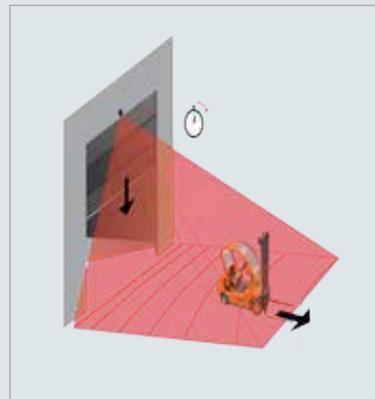
Installation requires identifying two visible spots on the floor which align the first curtain with the center of the door. From there, an intuitive configuration is provided by the LCD screen and / or remote control. The field can be positioned centrally or laterally, depending on the application. Then 'teaching' of various detection zones (opening, presence, safety) are done via the remote control.



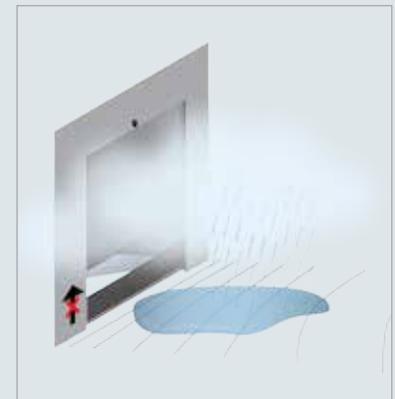
Measures distance accurately and calculates size and trajectory of an object



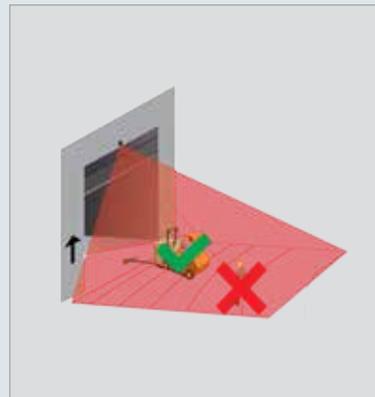
Accurately detects approaching or parked vehicles



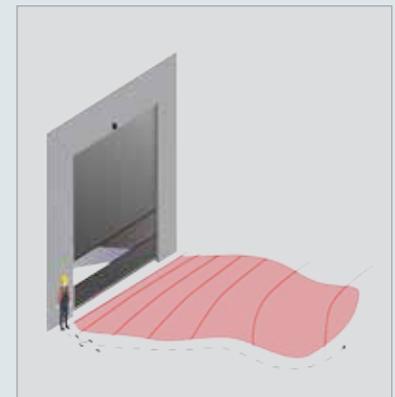
Reduces lag-time guaranteeing that the door closes more rapidly



Independent of atmospheric disturbances such as rain, snow and reflective surfaces



Filters out pedestrians and rejects parallel traffic



Easy shaping of detection zone using remote control

Reliable Detection in Sensitive Environments

Ideal solution to replace induction loops

Technical specifications

Technology	LASER scanner, time-of-flight measurement (7 laser curtains)
Detection mode	Motion and presence
Typical mounting height	6.5 ft to 19.5 ft (2 m to 6 m)
Remission factor	> 2 %
Angular resolution	1.34°
Typical minimum object size	6" (15 cm) @ 19.5 ft (6 m) (in proportion to object distance)
Testbody	27.5" x 12" x 8" (700 mm x 300 mm x 200 mm) (testbody A according to EN 12445)
Emission characteristics	
IR LASER	Wavelength 905 nm; max. output pulse power 75 W; Class 1
Red visible LASER	Wavelength 650 nm; max. output CW power 3 mW; Class 3R
Supply voltage	10-35V DC @ sensor terminal
Power consumption	< 5 W
Response time	Typ. 100 ms; max. 500 ms
Output	1 electro-mecanic (galvanic isolation - polarity free) 42 V AC (max. switching voltage) - 500 mA (max. switching current) 2 rapid electronic relays (galvanic isolation - polarity free) 42 V AC (max. switching voltage) - 80 mA (max. switching current)
LED-signals	2 tri-colored LED: Output status/ remote control response / error signals
Dimensions	8" (200 mm) (H) x 6" (150 mm) (W) x 4" (100 mm) (D) (approx.)
Material / Color	Plastic / Black
Rotation angles on bracket	-45° to +45° (lockable)
Tilt angles on bracket	-10° to +5°
Protection degree	IP65
Temperature range	-22 °F to +140 °F (-30 °C to +60 °C) if powered
Humidity / Vibrations	0-95 % non-condensing / < 2 G

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High Performance Doors



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