UniScan

Infrared presence detector for automatic swing doors and revolving doors in accordance with EN 16005 and DIN 18650

Practical, flexible, slender

- Fully automated starting up: quick and easy via keystroke
- Automatic mounting height detection: saves time and facilitates installation
- Top design: the smallest sensor in its category
- Individually adjustable AIR points: for perfect adaptation to the local situation
UniScan

Active infrared presence detector for automatic swing doors and revolving doors in accordance with EN 16005 and DIN 18650

Highest level of safety for everyday operation
Safety for every entrance – UniScan provides safety wherever people enter and exit every day. UniScan’s dense detection field offers the greatest possible protection, even for small children and people with impaired mobility.

Quick and easy installation
UniScan will convince you not only due to its high level of safety, but it also reduces the installation and start up time. All it takes is one keystroke and the device is taught and set – fully automated. Thanks to its slender and elegant design with small dimensions, the sensor is unobtrusive and can also be used when space is at a premium.

Your advantages

Quick installation and starting up
- Several sensors are simply connected by means of a flat cable
- No tools needed to adjust mechanical settings
- Automatic startup at the push of a button, LED display

Universal creation
- Testing method can be selected in accordance with the respective drive types
- The detection height above ground can be adjusted between 10 cm and 100 cm
- No interference through synchronisation of the optics
- Individual turning off of single beams

Compact dimensions
- Connection with flat cable
- Adjustment of detection angle
- Starting up via keystroke

Field characteristics for more safety
- Close array of beams (471 x 60 mm at 2.2 m mounting height) with 8 beams and very short reaction time (< 50 ms)
- Mounting height up to 3.0 m
- Power saving mode (DIN 18650-compliant)
Extended accessories

Single components of the UniScan, such as the optical unit US beam and various profiles, are available at all times. An additional remote control enables sensors that have already been installed to be adjusted. The Y-Adapter offers a simple cabling solution with only one cable for two sensors on both sides of the door. The two door loop sets DLP 6 and Door Loop provide a clean connection to the wall.

UniScan door set

Set for security
UniScan is also available as a user-friendly door set.

User-friendly, complete and clear
All components are supplied in a single package: the individual parts are clearly arranged. This provides you with everything you need to secure a door at your fingertips.

Quick installation and startup without tools
The Y-Adapter clips into profile. Thanks to its practical plug-in design, both sides of the door can be connected based on the plug-and-play principle. The profile end covers are also pluggable and can be assembled without tools.

Safety for every application

Situation
Access via a swing door

Solution
- The main and secondary closing edges are monitored on both sides of the door for optimum protection of the entire door swing to avoid collisions
- Due to short reaction time, door movements remain smooth

Advantages
- UniScan perfectly secures all edges
- The matching device for every door: Length and number of sensors can be chosen

Situation
Access via a revolving door

Solution
- An on-board collision protection for revolving doors provides smooth operation and minimises risk of accidents

Advantages
- Persons and objects are detected easily and without contact
- Possible collisions and accidents involving people at the door are thus avoided
Ordering information

<table>
<thead>
<tr>
<th>Article No.</th>
<th>Description</th>
<th>Sensor / Dimensions</th>
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<tbody>
<tr>
<td>260012</td>
<td>UniScan I, 350 mm, silver</td>
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<td>259790</td>
<td>UniScan I, 350 mm, black</td>
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<td>UniScan II, 1100 mm, silver</td>
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<td>256297</td>
<td>US beam</td>
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Y-Adapter

1.7 – 3.0 m
471 x 60 mm
on-board
< 50 ms
4 (with DC supply voltage only)

DLP 6 Box, door loop set
Box and door loop tube, length max. 600 mm, inner diameter max. 6 mm, material plastic, colour black

Door Loop, door loop set
Wall adaptor and door loop tube, length max. 600 mm, inner diameter max. 6 mm, material plastic, colour black

Y-Adapter

2.2 m
1.7 – 3.0 m
471 x 60 mm
on-board
< 50 ms
4 (with DC supply voltage only)

Additional products

Activates automatic doors
Microwave motion sensor Merkur 2 with electronically adjustable field
Protects primary closing edges in revolving doors
Active infrared sensor SpotScan with detection altitude of up to 3 m

Technical data

Housing material
Aluminium

Front cover
Plexiglass PMMA (black)

Weight (US beam)
90 g

Measurements (US beam)
300 x 31 x 20 mm

Weight (UniScan II, 1100 mm)
910 g

Type of connection
Plug-in screw terminal

Technology
Active infrared
(triangulation principle)

Mounting height
5 beams per US beam activated (factory setting)

Field size
1.7 – 3.0 m

Mode of operation
on-board

Reaction time
< 50 ms

Performance Level
PLc, Cat. 2 (EN ISO 13849-1)

Max. number of sensors
4

linked together

Power saving mode
8 per US beam

Relay holding time
0–10 s (adjustable)

Supply voltage
15–37 V DC ± 0%
15–26 V AC ± 0%, 50/60 Hz
AC only for single device

Making current
Max. 500 mA

Power consumption
Max. 3.2 W (138 mA with AC only for single device)

Test input
High/Low active, Pull up/Pull down

Response time
to testsignal
< 30 ms (typical 3 ms)

High level
Min. 5 V DC – max. 24 V DC / i ≤ 6.5 mA

Output
Relay 40 V DC, 40 V AC, 1 A

Relay holding time
0–10 s (adjustable)

Environment conditions
IP54 (EN 60529)

Protection category
Operating temperature
–20°C to +60°C

Atmospheric moisture
Max. 95% relative, non-condensing

Norms
EN 61508

Immision
EN 61000-6-1
EN 61000-6-2
EN 61000-6-3
EN 61000-6-4

Emission
EN 12978

EC type certificate
EN 16005

in accordance with
DIN 18650-1
EN 12978
EN ISO 13849-1
EN 61000-6-1

Advice
Technical data and recommendations for our products are empirical values and serve as orientation guide for the user. Information given in brochures and data sheets do not guarantee special product characteristics. This does not include special characteristics which, in single cases, we confirm individually or in written form. We reserve the right to make modifications resulting from further technical development.

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