

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

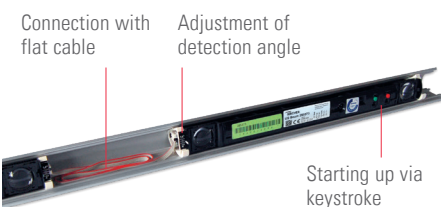
- Several sensors are simply connected by means of a flat cable



- No tools needed to adjust mechanical settings



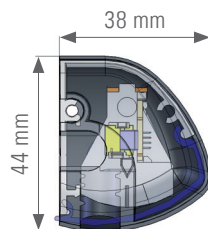
- Automatic startup at the push of a button, LED display



Universal creation

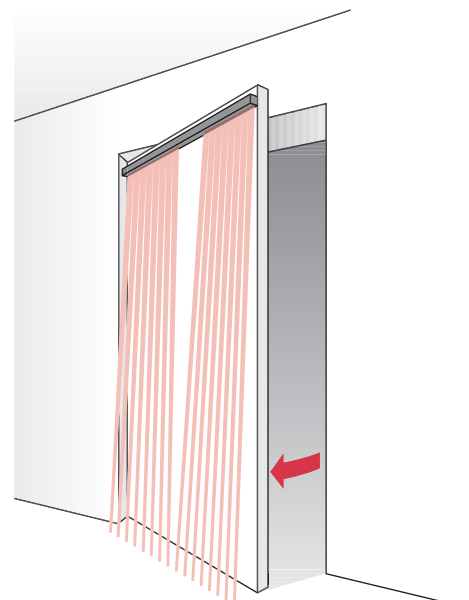
- Testing method can be selected in accordance with the respective drive types
- The detection height above ground can be adjusted between 10 cm and 100 cm
- No interference through synchronisation of the optics
- Individual turning off of single beams

Compact dimensions



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.



US beam
Optical unit



RegloBeam 2
Remote control



Y-Adapter
Connection of
two UniScans



Flat cable
Flat cable for
the connection
of US beams



DLP 6 Box
Door loop
set with wall
box



Door Loop
Door loop
set with wall
mounting piece



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

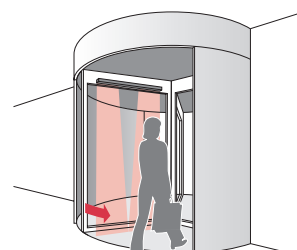
Access via a revolving door

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

Article No.	Description	Sensor / Dimensions	
260012	UniScan I, 350 mm, silver	1	
259970	UniScan I, 350 mm, black	1	
260013	UniScan I, 350 mm, white	1	
256274	UniScan II, 750 mm, silver	2	
256317	UniScan II, 750 mm, black	2	
256296	UniScan II, 750 mm, white	2	
256299	UniScan II, 900 mm, silver	2	
256340	UniScan II, 900 mm, black	2	
256341	UniScan II, 900 mm, white	2	
256859	UniScan II, 1100 mm, silver	2	
256596	UniScan II, 1100 mm, black	2	
256881	UniScan II, 1100 mm, white	2	
290768	Door set: 2 UniScan II, 1100 mm, silver	2 x 2	
296971	Door set: 2 UniScan II, 1100 mm, black	2 x 2	
296972	Door set: 2 UniScan II, 1100 mm, white	2 x 2	
291030	Door set: 2 UniScan II, 1200 mm, silver	2 x 2	
296974	Door set: 2 UniScan II, 1200 mm, black	2 x 2	
296974	Door set: 2 UniScan II, 1200 mm, white	2 x 2	
256297	US beam Optical unit incl. mounting clips	1	
288879	Y-Adapter		
212354	DLP 6 Box, door loop set Box and door loop tube, length max. 600 mm, inner diameter max. 6 mm, material plastic, colour black		
220535	Door Loop, door loop set Wall adaptor and door loop tube, length max. 600 mm, inner diameter max. 6 mm, material plastic, colour black		
212356	Door Loop, door loop set Wall adaptor and door loop tube, length max. 600 mm, inner diameter max. 6 mm, material metal, colour black		
291082	UniScan cable set Contains Y-Adapter 288879 and door loop set 220535		
213096	Flat cable 500	500 mm	
213097	Flat cable 800	800 mm	
225452	Scan front cover	3350 mm	
219910	Scan silver aluminium profile	3350 mm	
247969	Scan black aluminium profile	3350 mm	
247966	Scan white aluminium profile	3350 mm	
297705	Scan Cap Set black End cover set, black		
297706	Scan Cap Set white End cover set, white		
218810	Holder Beam Universal Mounting clip		
292393	RegloBeam 2 Bidirectional remote control		

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

Mechanical 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

Technological data

Technology	Active infrared (triangulation principle)
Beams	8 per US beam
Power saving mode	5 beams per US beam activated (factory setting)
Mounting height	1.7 – 3.0 m
Field size (at 2.2 m)	471 x 60 mm
Mode of operation	on-board
Reaction time for detection	< 50 ms
Performance Level	PLd, Cat. 2 (EN ISO 13849-1)
Max. number of sensors linked together	4 (with DC supply voltage only)

Electrical data

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. 3.3 W (138 mA with 24 V per unit)
Test input	High/Low active, Pull up/Pull down Response time to test signal 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

Protection category	IP54 (EN 60529)
Operating temperature	–20°C to +60°C
Atmospheric moisture	Max. 95% relative, non-condensing

Norms

Immission	EN 61000-6-1 EN 61000-6-2
Emission	EN 61000-6-3 EN 61000-6-4
EC type certificate in accordance with	EN 16005 DIN 18650-1 EN 12978 EN ISO 13849-1 EN 61508

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.

BBC Bircher Smart Access

Wiesengasse 20

8222 Beringen

Switzerland

Phone +41 52 687 11 11

info@bircher.com

bircher.com