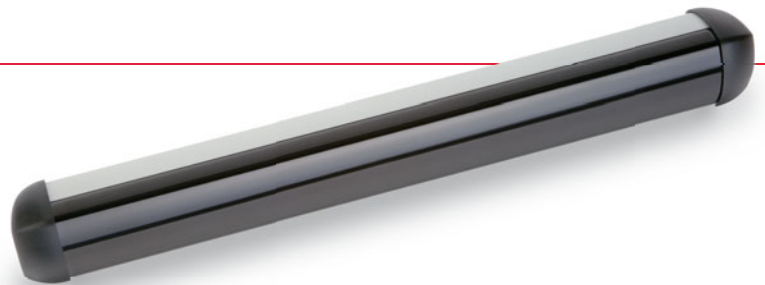




sensing the future



## UniScan

Active infrared presence sensor for automatic pedestrian swing doors and specialty applications

### Safe, Reliable, Easy to Install

- Unprecedented safety with dense detection field and fast reaction time
- Fully automated start-up at the press of a button or by remote control - no tools required
- Automatic mounting height/distance detection
- IR spots can be individually turned on or off for custom applications
- Monitoring function



# UniScan

## Active Infrared Presence Sensor for Automatic Pedestrian Doors & Specialty Applications

Safe & reliable in every application – 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.

UniScan is quick and easy to install and the sensor is ready to use at the push of a button. Thanks to its sleek design, UniScan is unobtrusive and can be used where space is at a premium.



### Your Benefits

#### Product Overview

- Enhanced safety through dense detection field and a tight array of IR spots
- Slimmest sensor in its class
- Customizable length and number of sensor heads fit every application and budget
- Detection height/distance is determined automatically. Range up to 6.8' (3.0 m), can be extended to 13' (4.0 m) for some applications
- Individual IR spots can be turned on/off for endless applications
- Can be configured for doors with panic hardware
- 8 IR spots per sensor head (maximum), 5 spots active in power save mode (factory setting)
- Monitoring function for enhanced safety

#### Key Features

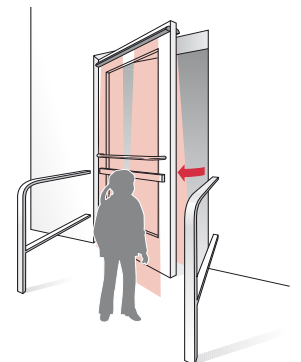
- No tools needed to adjust mechanical settings
- Automatic startup at the push of a button
- Settings are adjustable by remote control
- Quick-disconnect cables for easy installation on both sides of the door
- Sensor heads & Y-adaptor easily click into the aluminum housing from the front
- Translucent lens cover allows status LED to be seen



### Applications

#### Full-Energy Automatic Swing Door

- Door-mounted presence sensor that meets the ANSI 156.10 standard without the need for an overhead sensor
- Edges are monitored on both sides of the door for optimum protection and collision avoidance throughout the entire door swing
- Fast reaction time is ideal for full-energy doors
- Easy to install on both sides of a swing door with the Y-adaptor

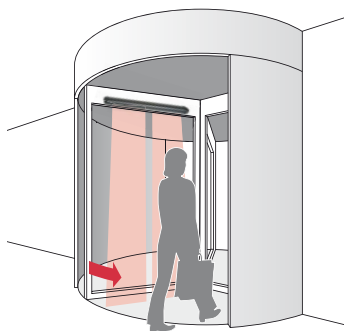




## Applications

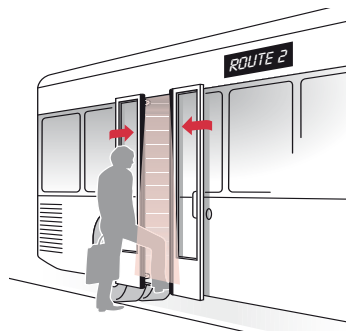
### Automatic Revolving Door

- Used to slow a revolving door
- Used in place of heelguard to stop the door before impact with a person or object



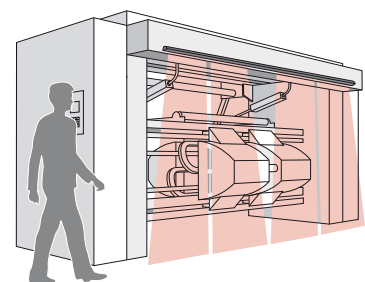
### Public Transit

- Used as a safety curtain to hold bus or train doors open until passengers are safely on board and out of the closing path of the doors



### Machine Safeguarding

- Used as a safety curtain to protect people working near pinch/shear points on machinery
- Angled detection field pattern helps protect to the machine edge
- Individual IR spots can be turned on/off to create custom detection patterns for a variety of applications




# Order Details






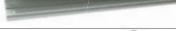






**Standard UniScan assemblies** - Custom sizes are also available, please call Bircher Reglomat for more information. All assemblies can be easily cut down on-site to exact size. Assemblies are available with **black** or **silver** aluminum housing.

Part no.	Description
<b>US I 36"</b>	36" assembly with 1 US beam
<b>US I 42"</b>	42" assembly with 1 US beam
<b>US II 36"</b>	36" assembly with 2 US beams
<b>US II 42"</b>	42" assembly with 2 US beams
<b>US III 48"</b>	48" assembly with 3 US beams
<b>US IV Custom</b>	Custom assembly with 4* US beams

\*Maximum number of US beams per assembly - for specialty applications only.



## Additional Parts & Accessories

<b>256297</b>	US Beam (sensor head) includes 2 mounting clips	
<b>288879</b>	Y-Adapter - connects UniScan assemblies on both sides of a swing door	
<b>351652</b>	RC Duo 2 bidirectional remote control - used to adjust settings (optional)	
<b>225452</b>	Lens cover - sold by linear foot	
<b>S-Ts K7103.032</b>	Aluminum housing black - sold by linear foot	
<b>S-Ts K7103.034</b>	Aluminum housing silver - sold by linear foot	
<b>297705</b>	UniScan press-fit end caps including optional screws (one pair)	
<b>220535</b>	Door loop - protects exposed cables	
<b>213096</b>	Quick-connect intra-unit flat cable - 19" (500 mm)	
<b>213097</b>	Quick-connect intra-unit flat cable - 31.5" (800 mm)	
<b>243025</b>	Rain protection tape - sold in rolls of 55.7' (17 m)	
<b>991007</b>	Switched-mode power supply (SMPS) for sensors Screw terminals, Vin = 90 - 240 VAC, Vout = 24 VDC (1.5A/35W)	

# Packages

## Superior Swing Door Kit - Single Panel

Includes (2) UniScan II 36/42" with Y-adapter  
(1) Reflex 2 microwave motion sensor



## Superior Swing Door Kit - Double Panel

Includes (4) UniScan II 36/42" with (2) Y-adapters  
(1) Reflex 2 microwave motion sensor



# Supplementary Products

## Reflex 2

Microwave motion sensor with electronically adjustable field  
Shown with RC Duo 2 remote control for programming



## PrimeMotion

Bircher Reglomat's newest microwave motion sensor for automatic swing doors



## SpotScan

Active infrared presence sensor for protection of entry & pinch points on revolving doors



## TopScan

Door mounted active infrared presence sensor for automatic swing and revolving doors



# Technical Data

## Physical Data

<b>Housing material</b>	Aluminum
<b>Front cover</b>	Plexiglass PMMA (black)
<b>Weight</b> US-II 36" assy	1 lb, 10 oz (0.72 kg)
<b>Dimensions</b>	W x H (length variable)
<b>Housing inc. end cap</b>	1.5" x 1.7" (38 mm x 44 mm)
<b>Connection type</b>	Plug-in screw terminal

## Technical Data

<b>Technology</b>	Active infrared, pulsed 880nm triangulation principle
<b>IR spot dimensions</b>	1.1" x 2.4" (30 x 60 mm) diameter at working height of 7.2' (2.2 m)
<b>Working height/distance</b>	5.5' - 8.8' (1.7 - 3.0 m)
<b>Object detection height</b>	4" - 40" (10 - 100 cm)
<b>Response time on detection</b>	<50 ms
<b>Performance Level</b>	PLd, Cat. 2
<b>Max. number of sensors linked together</b>	4 (with DC supply voltage only)

## Electrical Data

<b>Supply voltage</b>	15-37 VDC 15-26 VAC* * max. 1 sensor head per assembly
<b>Current consumption</b>	< 500 mA
<b>Power consumption</b>	3.3 watt (138 mA, 24 V per sensor head) 5 spots per sensor head active
<b>Factory setting</b>	High/Low active, Pull up/Pull down
<b>Test input</b>	Response time to test signal High level
<b>Output</b>	Relay 40 VDC, 40 VAC, 1 A
<b>Relay holding time</b>	0-10 s (adjustable)

## Environmental Conditions

<b>Protection class</b>	NEMA 3 (IP54)
<b>Operating temperature</b>	-4° F to +140° F (-20°C to +60°C)
<b>Air humidity</b>	< 95%, non condensing

## Standards

<b>Immission</b>	EN 61000-6-1 EN 61000-6-2
<b>Emission</b>	EN 61000-6-3 EN 61000-6-4
<b>EC type certificate in accordance with</b>	DIN 18850 EN 12978 EN 13849-1 EN 61508

## Bircher Reglomat

870 Pratt Ave N  
Schaumburg, IL 60193  
Phone 847 952 3730  
Fax 847 952 2005  
sales@bircherreglomat.com  
www.bircherreglomat.com