



SKU: CP-NEXT120S

120Kg Brushless Motor for Swing Door w/ Fixing plate

Designed for internal door applications to automate the opening and closing of swing doors up to 120kg.

Specification

Power supply	115 - 230 Vac 50/60 Hz
Max power	40W
Stand-by power	5W
Max weight of the leaf	120kg
Max width of the leaf	1200mm
Max opening angle	110°
Motor	24Vdc brushless motor with encoder
Max load of external accessories	0.5A 24Vdc
Output for electric lock	Relay with N.O. / N.C. contact
IP Rated	IP32
Operating temp	-15°C +50°C
Opening speed (up to 90 °)	Adjustable from 2 to 12s
Closing speed	Adjustable from 4s to 12s
Pause time	Adjustable from 0.5s to 60s
Operation	Spring-powered closing

Product Dimensions



Height – 60mm Width – 520mm

Depth – 76mm





SKU: CP-JMB/KS-3

Three Position Key Switch (hold open/off/auto) latching

Three Position Key Switch

Specification

Operation	Latching
Supplied with	High impact plastic backbox
Security screws	Allen key type
Contacts	Voltage free contacts
Power	12-24 VDC
IP rated	IP54
Keys	Supplied with 2 keys
Surface	Etched legend

Product



Dimensions

Height – 120mm

Width - 50mm

Depth – 47mm

Weight - (boxed) 250g

Weight - (unboxed) 210g





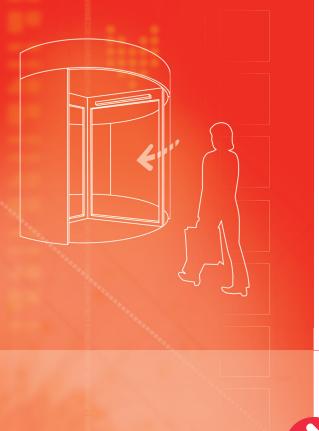
SKU: CP-NEXT120-BAS

Standard Articulated Arm (outswing)

Designed to be used with the CP-NEXT120S motor

Product







Smart Access





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



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



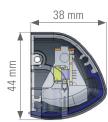
Connection with Adjustment of detection angle



Universal creation

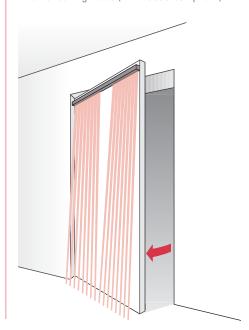
- Testing method can be selected in accordance with the respective drive types
- The detection height above ground can be adjusted between 10 cm and 100 cm
- No interference through synchronisation of the optics
- Individual turning off of single beams

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



Y-Adapter Connection of

two UniScans



Flat cable
Flat cable for the connection of US beams

DLP
Door the connection box



DLP 6 Box Door loop set with wall



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

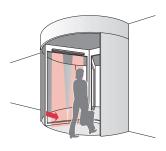
Access via a revolving door

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



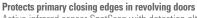
Ordering information

Article No.	Description	Sensor / Dimensions	
260012 259970 260013	UniScan I, 350 mm, silver UniScan I, 350 mm, black	1 1 1	
256274	UniScan I, 350 mm, white UniScan II, 750 mm, silver	2	
256317 256296	UniScan II, 750 mm, black UniScan II, 750 mm, white	2 2	
256299	UniScan II, 900 mm, silver	2	
256340 256341	UniScan II, 900 mm, black UniScan II, 900 mm, white	2 2	
256859	UniScan II, 1100 mm, silver	2	
256596 256881	UniScan II, 1100 mm, black UniScan II, 1100 mm, white	2	
257182	UniScan III, 1600 mm, silver	3	
257184	UniScan III, 1600 mm, black	3	
257189 290768	UniScan III, 1600 mm, white	3 2 x 2	
296971 296972	Door set: 2 UniScan II, 1100 mm, silver Door set: 2 UniScan II, 1100 mm, black Door set: 2 UniScan II, 1100 mm, white	2 x 2	
291030	Door set: 2 UniScan II, 1200 mm, silver		
296973	Door set: 2 UniScan II, 1200 mm, black	2 x 2	65
296974 256297	Door set: 2 UniScan II, 1200 mm, white US heam	2 x 2	
230297	Optical unit incl. mounting clips	ı	Con Control of the Co
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 213097	Flat cable 500 Flat cable 800	500 mm 800 mm	
225452	Scan front cover	3350 mm	
219910 247969 247966	Scan silver aluminium profile Scan black aluminium profile Scan white aluminium profile	3350 mm 3350 mm 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		
243025	RPT rain cover 17 m roll		
292393	RegloBeam 2 Bidirectional remote control		4,000

Additional products

Activates automatic doors

 $\underline{\mbox{Microwave motion sensor Merkur 2 with electronically adjustable field}$



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

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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	< 50 ms
for detection	
Performance Level	PLd, Cat. 2 (EN ISO 13849-1)
Max. number of sensors	4 (with DC supply voltage only)

Electrical datas Supply voltage

AC only for single device
Max. 500 mA
Max. 3.3 W (138 mA with 24 V per unit)
High/Low active, Pull up/Pull down
< 30 ms (typical 3 ms)
Min. 5 V DC — max. 24 V DC / I = < 6.5 mA
Relay 40 V DC, 40 V AC, 1 A
0-10 s (adjustable)

 $15-26 \text{ V AC} \pm 0\%$, 50/60 Hz

Environment conditions

Protection category

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	EN 16005		
in accordance with	DIN 18650-1		
	EN 12978		

IP54 (EN 60529)

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

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Smart Access



www.bircher.com

Microwave motion detector for automatic doors

Intelligent, precise, versatile

- Optimal flow of persons:
 The homogenous radar field with SMD+ function detects the smallest movements
- Versatile usable:

 Practical adjustments for any type of doors, inside and outside
- Short commissioning time: Pre-programmed comfort settings and electronically adjustable dual field planar module
- Energy-saving: Avoids involuntary openings of the door by means of direction recognition and blanking-out of cross traffic

Merkur 2

Microwave motion detector for automatic doors

The all-rounder

Thanks to its extremely high versatility, Merkur 2 leads the way and can be used on virtually any type of automatic door. With its totally reliable detection, Merkur 2 provides a smooth flow of people and also ensures savings on energy and costs! The intelligent sensor system has an optional direction recognition and thereby makes sure that the door only opens when people are approaching or leaving. The door closes again immediately afterwards.

Dual field planar module

The second generation of Merkur is available with a radar field that is more symmetric and more sharply differentiated than before. Switching between wide or narrow field can be done by remote control or by push-buttons on the sensor. Thus, Merkur 2 is adjusted and ready to operate extremely quickly.



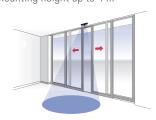
Your benefits

Versatile usable for every situation

- Pre-programmed comfort settings for a rapid commissioning
- The most reliable detection with a clearly differentiated radar field
- Energy-saving by direction recognition
- Avoidance of involuntary door openings by blanking-out of cross
- Electronically switching between a wide and a narrow field
- SMD+ as a new detection field for movements of < 5 cm/s</p>

Field characteristics

- Electronic field geometry settings options for a wide and narrow field (via remote control or via buttons at the detector)
- Can even be used with wide passage dimensions and high-level lights
- Mounting height up to 4 m





Further accessories

High-quality accessories make the innovative Merkur 2 so versatile that it can be used in the most widely differing applications.



RegloBeam 2 remote control

Using this, the sensor can be rapidly configured and parameters can be individually adjusted for the respective situation



MIS ceiling installation kit

Using the MIS ceiling installation kit, the sensor can be discretely and almost invisibly built-in to the ceiling



MCAP rain and snow cover

The MCAP cover for external use protects the sensor against rain and snow



MCL semicircular adapter

The MCL adapter with its concave back provides a flat surface to mount the sensor on revolving and curved doors



Reliable in every application

Situation

Activation of sliding doors, pedestrians on the pavement

Solution

- Ensures an optimal flow of people with reliable activation
- Intelligent movement detection: only activated when people directly come towards the door. Ideal for access in passages/on pavements

Benefits

- No unnecessarily opening/prolonged opening time of the door thanks to direction recognition
- The depth of the field can be reduced to a minimum and still the sensor ensures an optimal flow of people
- Field size up to a width of 5.0 m
- No involuntary opening of the door due to blanking-out of cross traffic/ people recognition



Situatio

Activation of revolving doors

Solution

 With a special semicircular adapter, Merkur 2 can also be installed on revolving doors

Benefits

- Efficient blanking-out of cross traffic
- Small and precisely selectable detection field



Situation

Activation of swing doors

Solution

 The sensor for automatic doors even in the most confined spaces

Benefits

- Thanks to the blanking-out of cross traffic, the door leaf is not detected and so the door is not triggered
- Especially suitable for ceiling installation



Situation

Installation in elderly and disabled homes

Solution

 Merkur 2 with a specially preprogrammed comfort setting

Benefits

- Even the very slowest-moving persons (< 5 cm/s) and those in wheelchairs are safely detected with the new SMD+ field
- Almost stationary objects are recognised in the detection field.
 The door stays open until the person has safely passed throught



Order details

Item no.	Description	
Merkur 2 Stan	dard	
219184	Merkur 2 Without direction recognition Changeover contact, Plug-in screw terminal	
219190	Merkur 2 ES With direction recognition Changeover contact, Plug-in screw terminal	
219193	Merkur 2 ES.C With direction recognition Changeover contact, RJ12 socket	
Accessories		
292393	Bi-directional remote control RegloBeam 2	
213459	Cover Merkur black	
213462	Cover Merkur white	
212840	MIS – ceiling installation kit	is in the second
212837	MCAP – rain and snow cover	-
212527	MCL 1.0 — semicircular adapter for Merkur 2 TRL 687 black Door diameter 2.0—3.6 m $175 \times 40 \times 5.4$ mm (W \times H \times T)	
212528	MCL 2.0 — semicircular adapter for Merkur 2 TRL 687 black Door diameter 3.6—6.0 m $175 \times 40 \times 3.7$ mm (W \times H \times T)	

Additional products

UniScan

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



PrimeFamily A

The complete solution for activating and protecting sliding doors in accordance with EN 16005 and DIN 18650



CleanSwitch

Contact-free switch for convenient activation of entrances with strict hygiene and design requirements





Technical specifications

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Technology	Double field radar module (24.125 GHz)
Transmitter power	< 20 dBm
Size of narrow field (at 2.2 m)	Min. 0.7 × 0.6 m (W × D) Max. 2.7 × 1.9 m (W × D)
Size of wide field (at 2.2 m)	Min. 1.1 × 0.6 m (W × D) Max. 4.7 × 1.7 m (W × D)

Mechanical specifications

Material	Cover: PC Base plate: ABS
Dimensions	176 × 62 × 52 mm (W × H × D)
Weight (without cable)	 150 g

Electrical specifications

Voltage	12-36 V DC
	12-28 V AC, 50 Hz
Operating current	Approx. 50 mA at 24 V DC, 24° C
Types of connections	
Merkur 2, Merkur 2 ES	Plug-in screw terminal
Merkur 2 FS.C	RJ12 plug

Specific specifications for Merkur 2 and Merkur 2 ES

Output	Potential-free changeover contact
	48 V AC/DC
	Max. 0.5 A AC / max. 1 A DC
	Max. 60 VA / max. 30 W

Environmental conditions

Mounting height	Max. 4.0 m
Type of protection (EN 60529)	IP54
Operating temperature	-20°C up to +60°C
Humidity	Max. 90% relative, non-condensing

Standards	
Immissions	EN 61000-6-1 EN 61000-6-2
Emissions	EN 61000-6-3 EN 61000-6-4

Note

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