For impressive entrances
For high quality solutions
For many applications

BLUE WEST GmbH

BWS21

AUTOMATIC SLIDING DOORS
BRUSHLESS MOTOR

HIGHLY EFFICIENT AND ATTRACTIVELY DESIGNED AUTOMATIC SLIDING DOORS PRODUCT LINE BWS FOR EXTERIOR AND INTERIOR.

AUTOMATIC ENTRANCE SYSTEMS

Content

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Introduction

Highly efficient and attractively designed automatic sliding doors product line BWS for exterior and interior. They provide a variety of architectural possibilities when designing an office, hotel, restaurant, hospital or any other place. The only limit is your imagination. Product line BWS and its modern drive integrate into every building and meet the needs of even the most demanding users. Stylish, efficient and easy to use.
The BWS fulfils 2006 / 42 / EG industrial guidelines for machines, DIN18650 as well as meeting all relevant national and international norms and standards.

Advantages

BWS – Qualities

The BWS enables the construction of a vast range of door models. Designed using modular construction principles, it can be adapted to suit the widest range of conditions and yet is largely based on the same components. This shortens installation time and reduces service and maintenance costs.

Mechanics

The absence of noise is the most striking feature of Blue West automatic doors. Our combination of short, low momentum toothed belts, rollers made from hardwearing, low-noise plastic, acoustically decoupled running tracks, guide pulley wheels with ball bearings and door leaf guides with specially developed guide profiles all contribute to an exceptionally quiet running door.

Electronics

The BWS components can communicate with one another interactively, which, among other things, enhances safety and security. The ability of drive, sensors and remote to communicate enables continuous monitoring of component status. The operational status of the door system and its individual electronic components also continuously undergo plausibility checks. Thanks to its learning capacity, the potential of the unit to malfunction is reduced to a minimum. Doors can be operated using a remote control featuring a graphic display with background lighting, and easy-to-use, led Menu navigation with text in the language of your choice; if required, an additional key operated switch is available.

Data and features

Door Functions
- The doors can be left completely open
- The doors can be left completely closed
- Cancellation of one of the inner or outer radars
- Keeping the door 70 % open (winter position)
- Position Switch (Manual / Auto, single / double, on / off, full / half opening)

Activators
- Remote control (Standard)
- Safety Sensor (Standard)
- Active or passive microwave sensors (Standard)
- Fingerprint control (optional)
- Coded keypad and proximity (optional)

Optional Requests
- All anodized colors
- Stainless steel profiles and coating
- Different optional glass and color alternatives

Data and features

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Door parameters		
Single-panel sliding door	– Clear passage width LW – Door panel weight, max.	800 – 3000 mm 1 x 150 kg
Double-panel sliding door	– Clear passage width LW – Door panel weight, max.	800 – 3000 mm 2 x 120 kg
Clear passage height*		2100 – 3200 mm

*Other dimensions on request.

Technical data of operator	
Motor Type	Brushless Dc motor
Height	8 - 12 cm
Installation depth	15 cm
Opening and closing force, max. 150 N	YES
Opening speed (incremental setting)	15 - 65 cm / s (single wing) 15 - 55 cm / s (double wing)
Closing speed (incremental setting)	10 - 45 cm / s (single wing) 10 - 43 cm / s (double wing)
Supply voltage, frequency	AC 80 V - 250 V (50 / 60 Hz)
Power consumption	70W
Class of protection	IP 54
Admissible temperature	-15 ° C to + 50 ° C
Compliant with EU Low Voltage Directive and EMC Directive	YES
Manufactured to ISO 9001	YES
Reliable activation and protection in automatic doors, with EN 16005 standard	YES

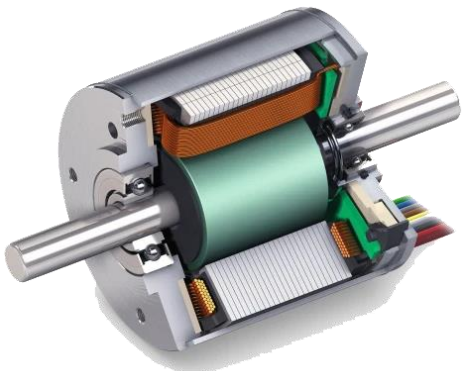
Detector Sensor	
Model Type	2 pieces (1 Vertical safety sensor , 1 Normal sensor) Switzerland “Primetec B - Primemotion C” BBC Bircher Smart

Brushless DC motor

Advantages

- Brushless DC motor does not have any carbon brushes, which reduces frequent replacement requirements of brushes and maintenance costs.
- Brushless DC motors have better performance and efficiency as compared to the brushed DC motors due to the involvement of electronic control enabling high-level control over the speed and position of the motor. Brushless DC motor lifespan is approximately 6 times higher than the counter brushed DC motor.
- Brushes can cause high sparks which may result in short life or complete burnout of brushed DC motor. However, in the case of brushless DC motor, due to no spark issue, there are fewer chances of burnout due to sparking issues.
- Brushless DC motor produces comparatively low operating noise as compared to other motors of the same ratings. As in other motors, there is continuous contact of brushes resulting in noise and sparking during contact. Therefore, brushless DC motors are given preference where electrical noise needs to be avoided.
- Thanks to their efficiency and durability, the brushless DC motors have largely supplanted their brushed counterparts. They find a wide range of applications in devices that run continuously, such as Sliding doors, washing machines, air conditioners.

	Brushed motor	**Brushless motor**
Lifetime	Short (brushes wear out)	Long (no brushes to wear)
Speed and Acceleration	Medium	High
Efficiency	Medium	High
Electrical Noise	Noisy (bush arcing)	Quiet
Acoustic Noise & Torque Ripple	Poor	Medium (trapezoidal) or good (sine)
Cost	Lowest	Medium (added electronics)



Detector sensor

Primetec B
Interior opening-closing and security.

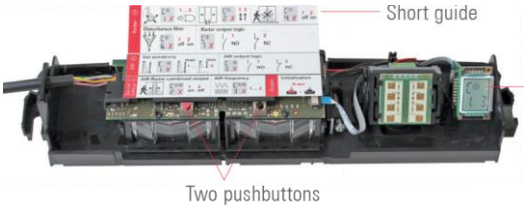
Primemotion C
Exterior opening-closing and security.

BBC BIRCHER Smart Access

Made in Switzerland

Detector sensor

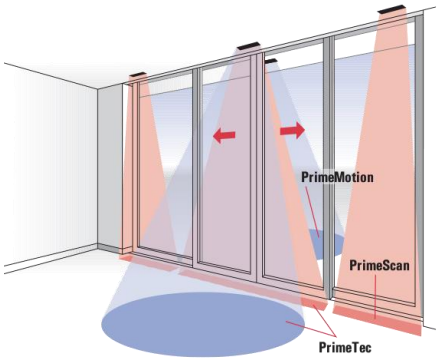
PrimeTec B
Simple and straightforward operation via buttons and LCD Precise positioning of the AIR curtain thanks to inclination angle display on a clear scale Automatic recognition of the test input Polarity reversal and short-circuit-proof radar and infrared outputs Short guide fastened to the detector with a QR code that guides directly to the operating instructions.



Situation
Activation and simple protection of sliding doors
Solution
PrimeTec B for activation and protection on one side and PrimeMotion C for activation on the other side
Advantage
A complete sensor kit with standardized and modern design

Field properties for additional safety
- Can even be used with wide passage dimensions and high-level lights.
- Mounting height up to 4 meters with an AIR field width of 3.8 meters
- The AIR curtain replaces the light barrier

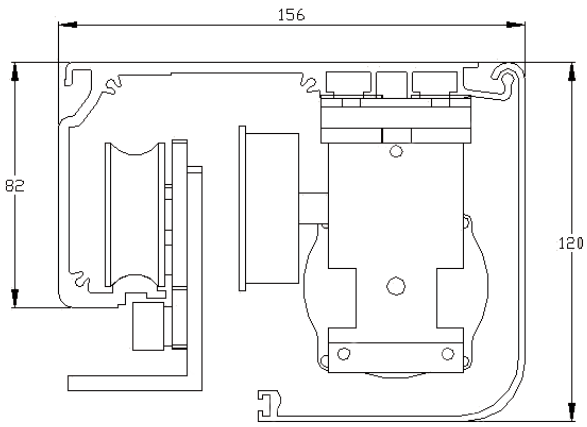
The benefits of radar and AIR technology in one sensor
- Dynamic activation and large detection areas thanks to radar technology
- Precise presence detection for protecting various danger points using AIR technology

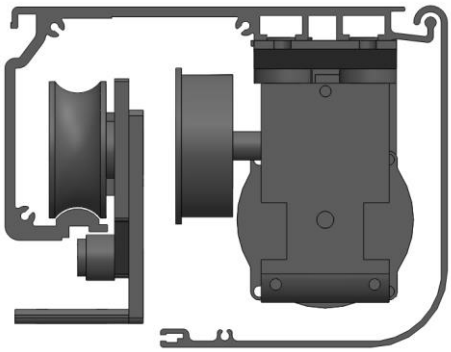


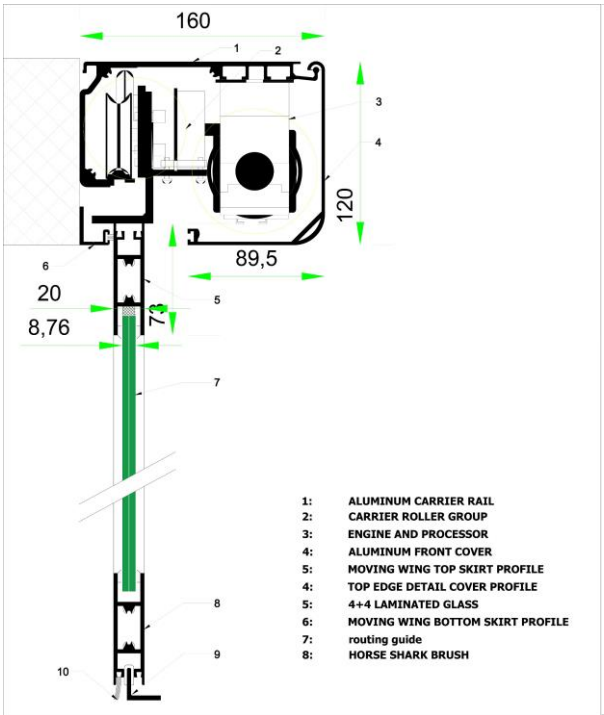
PrimeMotion C
PrimeMotion C is a simple microwave motion detector in an elegant, small housing.
Practical and versatile:
One device, also for particularly tall and wide doors
Wide range of applications:
The adjustable field geometry and the radar module that can be tilted and swivelled mean the door activation can be optimally adjusted to the flow of persons traffic

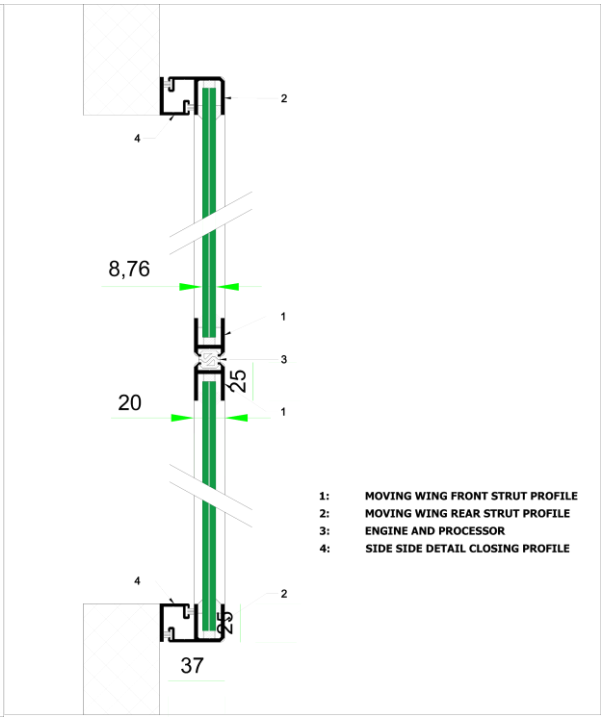
Short startup:
Quick and easy startup with potentiometer
Reliable in many applications
PrimeMotion C ensures an optimum flow of people because of its ideal activation of automatic
Situation
Activating sliding doors
Advantage
Reliable detection even with tall doors because of the possible installation height up to 4 m.

Dimension


156
82
120




160
120
89,5
20
8,76
73
1: ALUMINUM CARRIER RAIL
2: CARRIER ROLLER GROUP
3: ENGINE AND PROCESSOR
4: ALUMINUM FRONT COVER
5: MOVING WING TOP SKIRT PROFILE
4: TOP EDGE DETAIL COVER PROFILE
5: 4+4 LAMINATED GLASS
6: MOVING WING BOTTOM SKIRT PROFILE
7: routing guide
8: HORSE SHARK BRUSH


8,76
20
25
37
1: MOVING WING FRONT STRUT PROFILE
2: MOVING WING REAR STRUT PROFILE
3: ENGINE AND PROCESSOR
4: SIDE SIDE DETAIL CLOSING PROFILE

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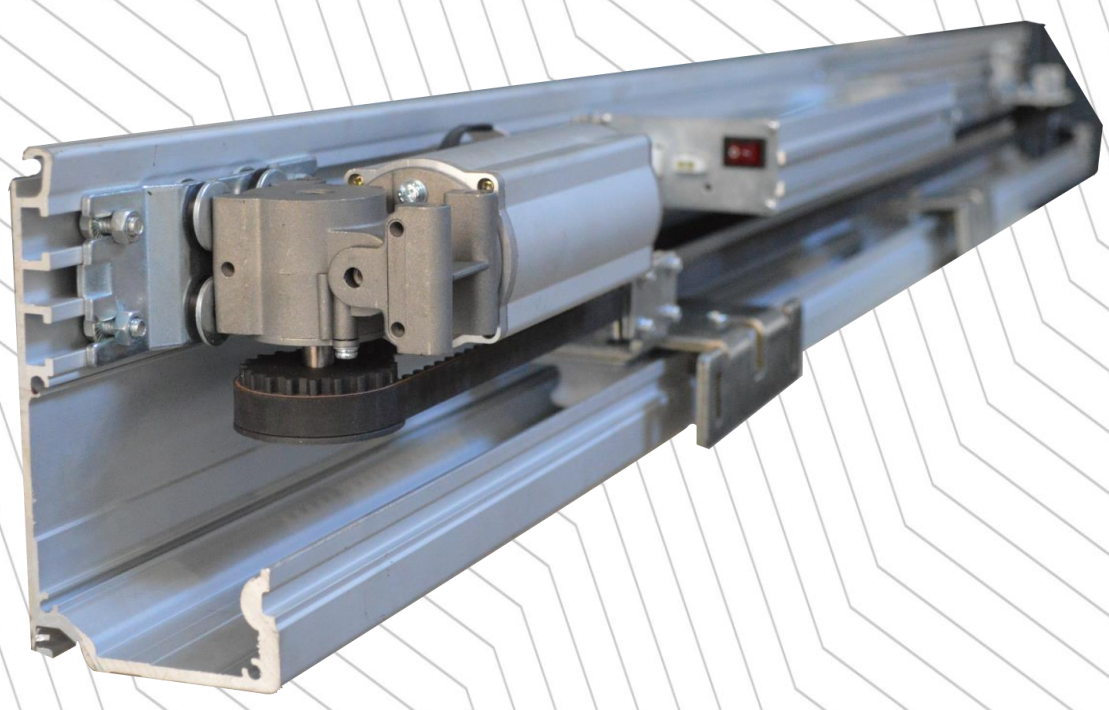

BLUE WEST GmbH

Contact us

BLUE WEST

BLUE WEST MIDDLE EAST

ARCHITECTURAL AND BUILDING MATERIAL COMPANY

Sale office

Maslak 1453, Ticari T4b blok -7kat Daire
153, Sariyer-Istanbul
+90 850 305 930
info@bluewestmiddleeast.com

BLUE WEST
GmbH

Neuer Wall 71 c/o WorkRepublic 20354
Hamburg - Germany
+49 (0) 40 9999 9442-9
www.bluewest.de
info@bluewest.de