



FALCON
AUTODOOR

GENERAL CATALOGUE



AUTOMATIC
DOOR OPERATOR

MADE IN KOREA

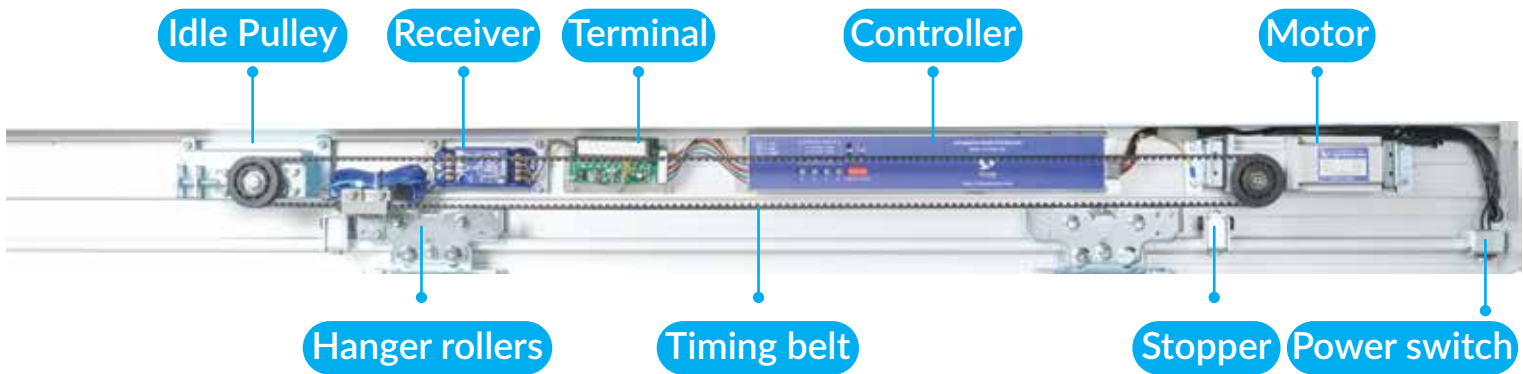
AUTOMATIC SLIDING DOOR OPERATOR

MODEL FALCON BDC-150

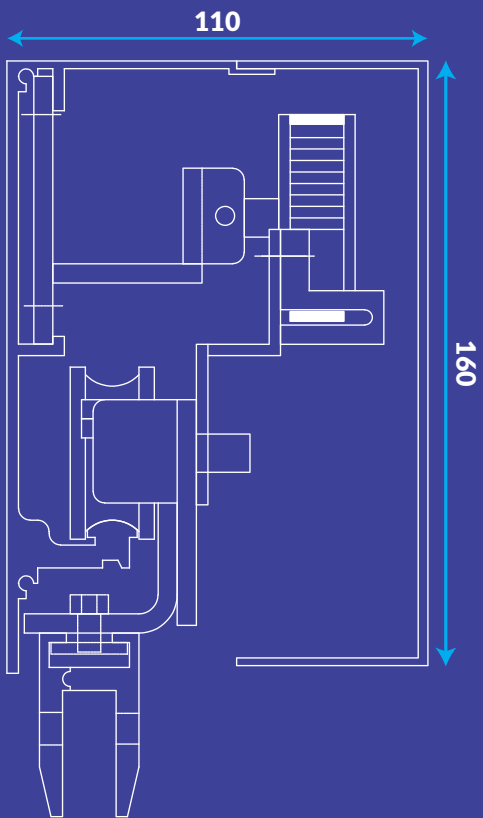
- This is a 100kg heavy motor-driven door with worm and gear, such as normally open, locking by remote control and forcing to open.
- The motor is separately designed with the power switch, and slings for lifting loads. Adopt internationally first-rate two-period form worm gearing transmission, starting powerfully with strong twisting force.
- Worm and gear is made from alloy materials, and operates in super high space without wear.
- Excellent transmission agent and innovative designs allow the motor to load more heavily and operate more steadily.
- The internally piloting and sound-proof closed design make the motor operate quietly. It both possesses good features of translational automatic doors and splendid gestures or surface structures.
- The arc door with a generous and compact structure are divided into two kinds, outside arc and inner arc, which can match up specific requirements on entrance appearance design of fashionable buildings, to create good three- dimensional visual effect and build a comfortable, safe and quiet passing space.



LAYOUT OF ENGINE COMPONENTS



SECTIONAL PLAN



SPECIFICATION

Model Description	BDC-150S (Single Door)	BDC-150D (Double Door)
Weight of door leaf	120Kgs x 1	100Kgs x 2
Width of door leaf	DW= 750 - 1600mm	DW = 600 - 1250mm
Collision function	Rebound under the condition of collision	
Installation method	Hanging-type installation	
Supply voltage	AC 90 - 230V 50-60 Hz	
Complete machine power	Less than 100W	
Motor	DC 24V 60W	
Opening speed	15-55 cm/s (adjustable)	
Closing speed	15-50 cm/s (adjustable)	
Opening range	Full opening / half open (remote-control unit setting)	
Environment temperature	-20°C ~+55°C	

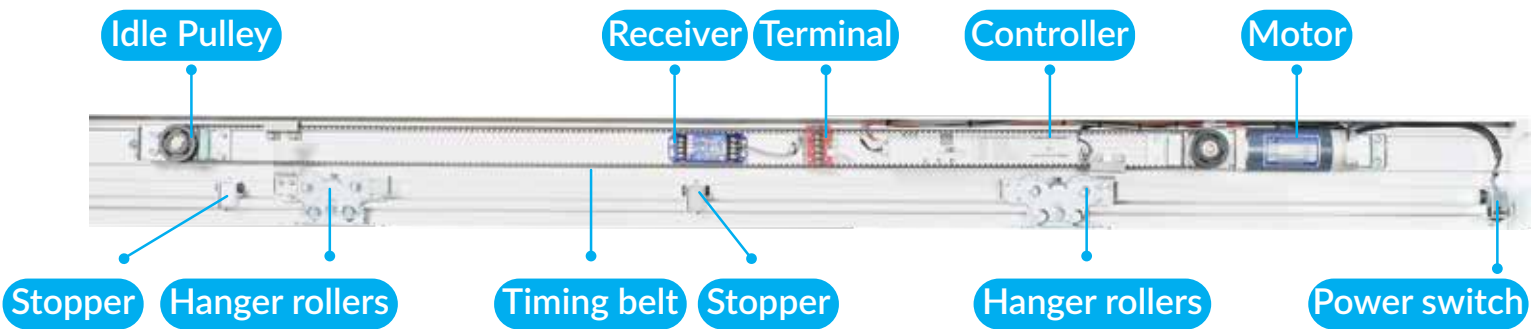
AUTOMATIC SLIDING DOOR OPERATOR

MODEL FALCON NEW DC-90

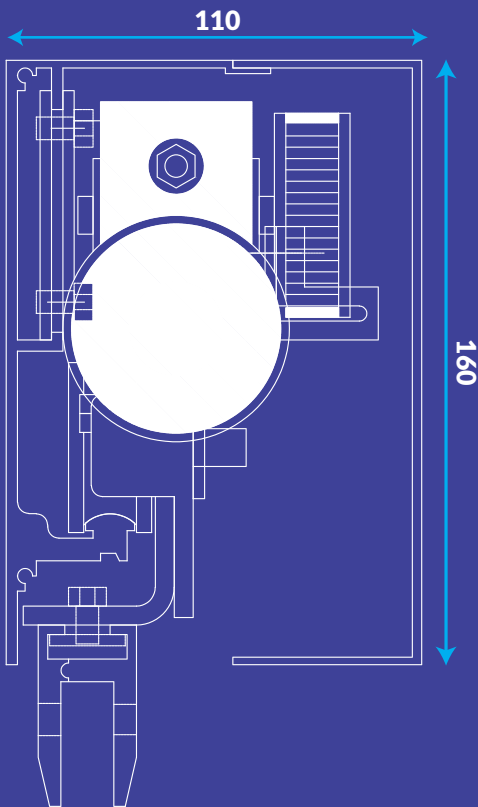
- Falcon model: New DC - 90 operator is Micom - Control process way, so it can be easily adjusted speed control, interval setting, safety sensor setting.
- Operator can be quiet & exactly moved by high efficiency DC motor.
- More simple & convenient design for a built-in transformer and safety beam receiver in the controller.
- More soft & strong by installing new motor reducer technologies.
- Motor developed with advanced technology don't generate heat or noise even used for long hours and operates in an optimal state.
- Controller functions are controlled digitally with a micro processor and various control functions can be in put without difficulty for ease of use.



LAYOUT OF ENGINE COMPONENTS



SECTIONAL PLAN



SPECIFICATION

Model Description	New DC-90S (Single Door)	New DC-90D (Double Door)
Door Weight	150Kgs X 1	120Kgs X 2
Power Supply	AC180V ~ 265V (50/60Hz)	
Motor	DC 24V 90W Gear Motor	
Drive	S8M Timing Belt	
Opening Speed	200mm ~850mm/sec (Adjustable)	
Closing Speed	150mm ~ 650mm/sec (Adjustable)	
Hold Opening Time	0~20 sec	
Ambient temp	-30°C ~ +50°C	
Rail Size	Length:	Single Leaf: 2m, 3m Double Leaves: 4m, 5m, 6m

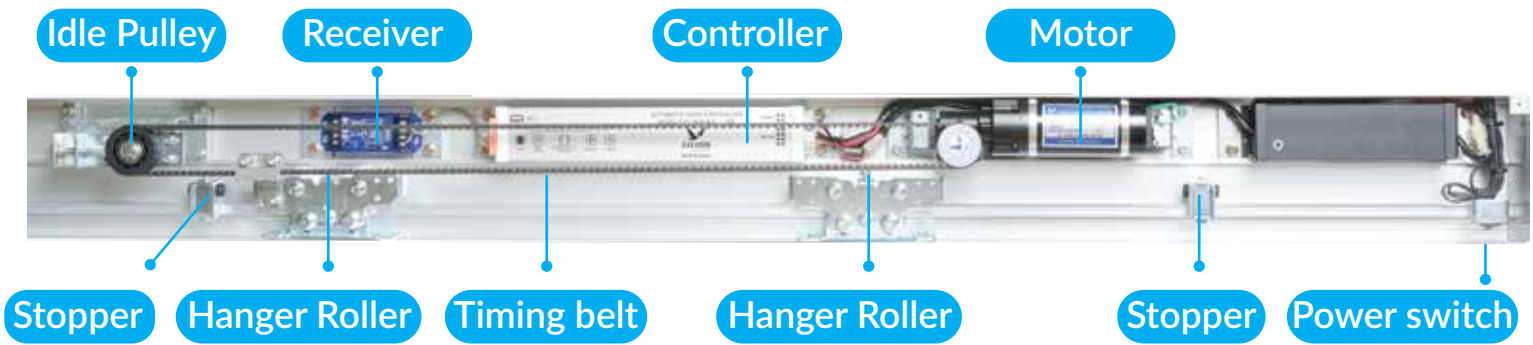
AUTOMATIC SLIDING DOOR OPERATOR

MODEL FALCON BDC-350

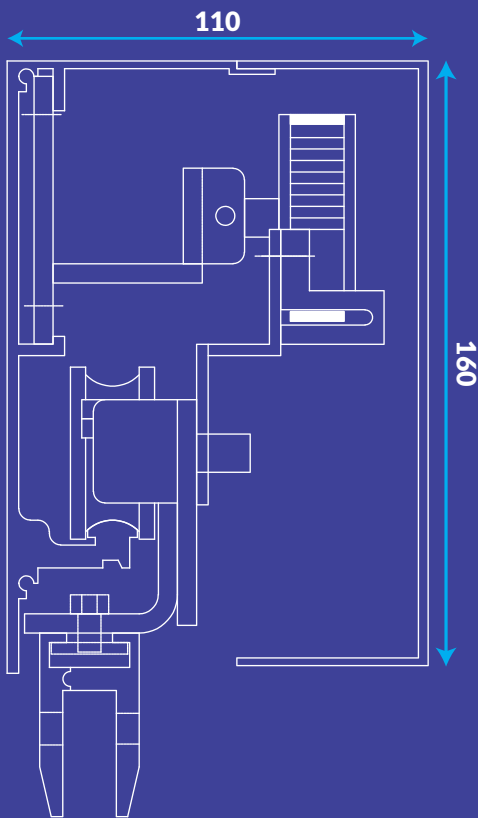
- Falcon model: BDC-350 is a integrated full digital Auto Door Control System including BDC motor drive and Motion Controller.
- BDC Drive is a inverter system to drive the brushless DC motor with hall C.T's that encode the rotor flux position. The motion controller has some requence inputs and by them generates various motion profiles requested in Auto Door System - BDC motor has exceedingly long life, and compared with DC motor.
- The hypoid gears motor will guarantee long life, and efficient power transmission. As the adaptive controller is applied in real time, the system control is optimized to the load or the weight variation of the door and the input AC line voltage.
- By adding the estimation algorithm, the controller realize very silent, fast and smooth motion.
- The door can be retracted hyper-sensitively, when people or obstacles hit against the door while closing by virtue of "Safety return" function.
- Due to a "thermal protector", the motor will be protected at the over-load condition. - Selectable open speed (70%, 80%, 90%, 100%).



LAYOUT OF ENGINE COMPONENTS



SECTIONAL PLAN



SPECIFICATION

Model Description	BDC-350S (Single door)	BDC-350D (Double door)
Weight Door	200Kgs x 1 (Max 250)	180Kgs x 2
Hold Time	1-20s	
Motor	DC 24V 120W	
Opening Speed	15-55 cm/s (adjustable)	
Closing Speed	15-50 cm/s (adjustable)	
Microcontroller	Microcomputer system	
Power Supply	AC 90-230V ±10% 50-60Hz	
Ambient Temperature	-20°C ~ +50°C	
Rail Size	Length:	Single Leaf: 2m, 3m Double Leaves: 4m, 5m, 6m

AUTOMATIC SLIDING DOOR OPERATOR

MODEL

FALCON TELESCOPIC

Sliding telescopic systems are designed in a way that the back leaves move with half the speed of the front leaves. With this stealthy coordinated movement, both back and front leaves reach the fully-open point simultaneously and provide you with an opening up to 2/3 of the installed width. Due to having four moveable leaves instead of two, you can enjoy much more convenience in a limited space.



*You can choose FALCON NEW DC-90 or FALCON BDC-350 operator in case your door weight is heavy.

SPECIFICATION



Model Description	TELESCOPIC DOOR	
	Single-Open Type	Double-Open Type
Weight of Door Leaf	90Kgs x2	70Kgs x4
Width of Door Leaf	DW = 650 - 1050 mm	DW = 650- 1000mm
Power Supply	AC80V ~ 250V	
Motor	DC 24V 90W	
Opening Speed	150mm ~ 450mm/sec (Adjustable)	
Closing Speed	150mm ~ 400mm/sec (Adjustable)	
Opening Range	Full opening / half opening	
Environment temperature	-20°C ~ +50°C	

AUTOMATIC SLIDING DOOR OPERATOR

MODEL

FALCON CURVED DOOR

For Hotel, Bank, Office, Cabaret, Etc

■ This model gives your facade a magnificent look like no other entrance. Offering a wider opening, Falcon curved sliding door is a perfect choice when you desire great ease of passage in hectic times.

*You can choose FALCON NEW DC-90 or FALCON BDC-350 operator in case your door weight is heavy.



SPECIFICATION

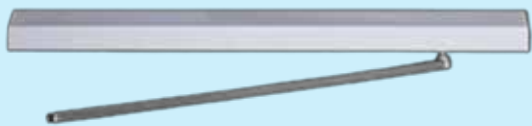
Model Description	CURVED DOOR	
	Single-Open Type	Double-Open Type
Weight of Door Leaf	Max. 90Kgs	Max. 90Kgs x 2
Width of Door Leaf	DW = 1000 - 1500mm	DW = 1000 - 1500mm
Power Supply	AC90V ~ 250V	
Motor	DC 24V 90W	
Opening Speed	150mm ~ 450mm/sec (Adjustable)	
Closing Speed	150mm ~ 400mm/sec (Adjustable)	
Opening Range	Full opening / half opening	
Environment temperature	-20°C ~ +50°C	

AUTOMATIC SWING DOOR OPERATOR



- Swing door operator is stable and simple for swing door which weight is up to 250Kgs.
- Easy installation and adjustment.
- Connect with sensor and photocell to active the door and offer safety.
- Extra automatic door components is also well fit such as key switch, function pad, other accessories.
- Suitable for medical door framed glass door, frameless door, wooden door, etc.

Pull Bar

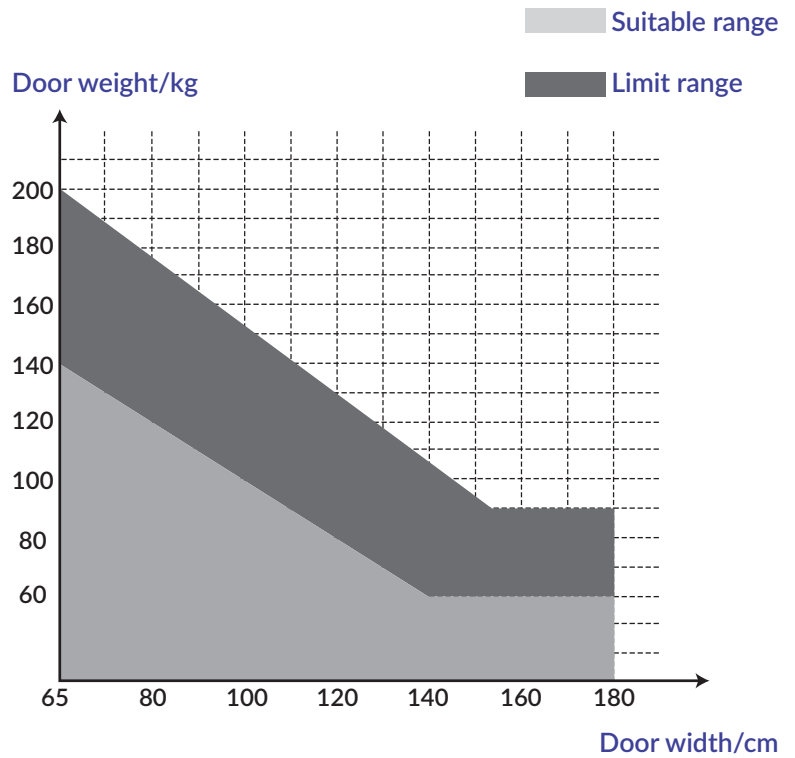


Push Bar



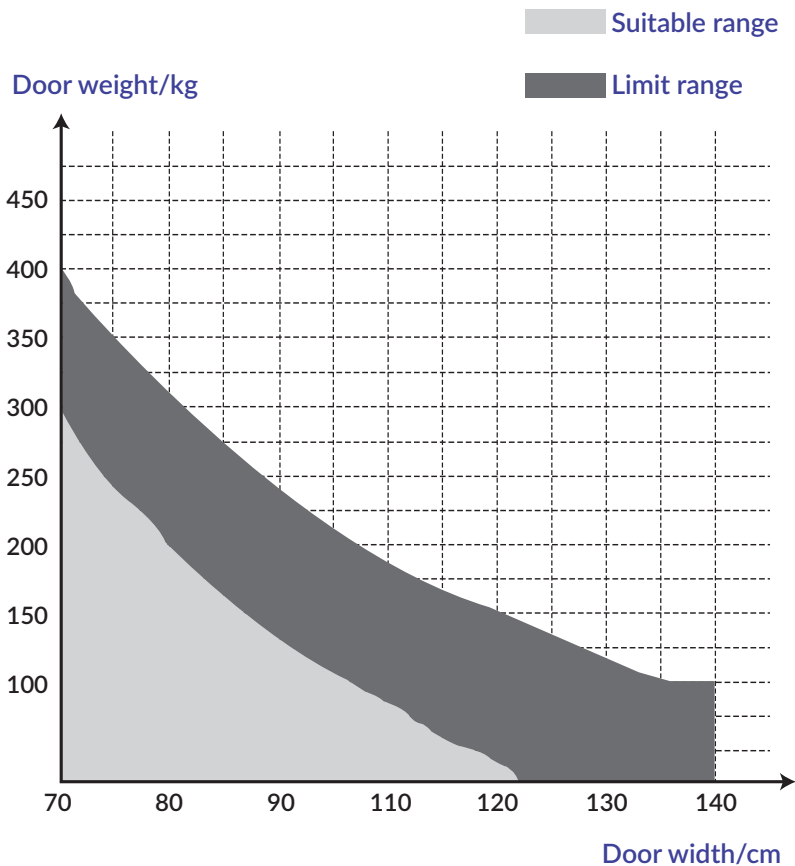
MODEL SW-90

Dimension	515*81*115mm
Operator Weight	6Kgs
Door Weight	90Kgs x 1 (Max 120Kgs)
Input Voltage	AC 100V - 240V/50-60Hz
Output Voltage	24V DC ($\pm 10\%$),3A
Opening Degree	Max 115°
Opening Speed	45°/s
Closing Speed	45°/s
Opening Time	0-60s (adjustable)
Protection Class	IP21
Operating Temperature	-20°C ~+50°C



MODEL SW-250

Dimension	610*90*128mm
Operator Weight	13.5Kgs
Door Weight	250Kgs x 1
Operating Temperature	-20°C - 50°C
Input Voltage	AC 200V - 240V/50-60Hz
Output Voltage	24V DC ($\pm 10\%$),3A
Opening Degree	Max 105°
Opening Speed	40°/s
Closing Speed	30°/s
Opening Time	3-9s (adjustable)
Protection Class	IP21



PRODUCT SPECIFICATION

- For all entrances where need contactless open/close.
- Detects the motion of body and object.

MODEL MS730 MICROWAVE MOTION SENSOR

Detection Mode	Motion
Detection Range	Min: 0.5*0.4m Max: 4m*2m (Installation Height: 2.2m)
Transmitting Height	<20dBm EIRP
Installation Angle	0°C ~ 90°C (lengthways) -30°C ~ +30°C (lateral)
Frequency	24.125GHz
Launch Frequency Density	<5mW/cm2
Min Detection Speed	5cm/s
Power	2W(VA)
Power Supply	12V~24V AC ±10% (50Hz~60Hz)
Maximum Voltage	42AC~60V DC
Maximum Switching Power	30W(DC)/60VA(AC)
Maximum Current	1A
Retention Time	2s
Guide Line	2.5m
Protection Class	IP54
Sheating Material	ABS plastic
Working Temperature	-20°C ~ +55°C
Dimension	120 x 80 x 50 (mm)



- For automatic door, security window for intrusion alarm, exhibition, industrial and commercial door.
- Prevents the door from closing in case of detecting body or object while the door is open.
- Near-infrared with 950nm wavelength.

MODEL SK-10DA PHOTOELECTRIC IBEAM SENSOR



Power Supply	AC/DC 12V~24V (Non-polarity)
Relay Contact Capacity	24V/1A
Working Distance	Max 10m
Current Consumption	Standby 75mA / Active 100mA
Operation Temperature	-20°C ~ +60°C
Dimension	44 x 114 x 30 (mm)
Weight	Control box 75g / Sensor 133g (including 5m cable)

PRODUCT SPECIFICATION

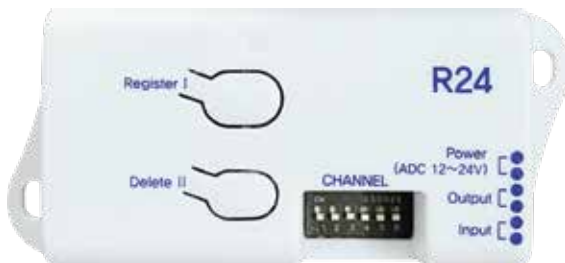
- For all entrances where require door activation switch.
- Slim and simple profile.
- Less fequency jamming and easy pairing.

MODEL TS300 WIRELESS TOUCH SWITCH

Power Supply	1.5V x 2 (AAA size battery)
Lifespan	Approx, 24 months (100 cycles/day)
Transmitting Distance	Up to 10m When installed in steel structure: up to 2m
Power Consumption	10mA Under
Operation Temperature	-20°C ~ +50°C
Dimension	39 x 185 x 13 (mm)
Protection Class	IP54



MODEL R24 TOUCH SWITCH RECEIVER



Power Supply	DC 12V~30V / AC 12~24V
Receiving Frequency	2.4GHz
Relay Contact Capacity	AC/DC 400V, 120mA
Operation Temperature	-20°C ~ +50°C
Dimension	99 x 43 x 21 (mm)

MODEL FT400 AUTOMATIC DOOR REMOTE CONTROL

Power Supply	1.5V (AAA Size battery)
Receiving Frequency	2.4GHz
Transmitting Distance	Up to 10m
Lifespan	Approx, 12 months (50 cycles/day)
Dimension	36 x 79 x 16 (mm)



PRODUCT SPECIFICATION

- For all entrances where need contactless open/close.
- Hygienic contactless opening solution for operation rooms, clean rooms, hospitals, restaurants, hotels, etc.
- Detection distance is adjustable.
- 3 labels included: Hand/Wheelchair/Phrase "WAVE TO OPEN"

MODEL MG100 MICROWAVE TOUCHLESS SWITCH

Power Supply	DC12~30V, AC12~24V
Technology	Microwave Motion Sensor
Detection Range	±5 ~ 40cm (Hand)
Speed Of Target	Min, ±3cm/s Max ±1.5m/s
Current Consumption	< 1.4W
Operation Temperature	-20°C ~ +50°C
Dimension	85.9 x 85.9 x 20 (mm)
Protection Class	IP55



MODEL PS100 INFRARED TOUCHLESS SWITCH



Power Supply	DC12~30V, AC12~24V
Technology	Infrared Touchless Switch
Detection Range	10~30cm / ±3~5cm
Output Hold Time	1~2 sec. (PULSE mode)
Current Consumption	< 1.5W
Operation Temperature	-20°C ~ +50°C
Dimension	40 x 117 x 19.50 (mm)
Protection Class	IP54

MODEL WPS100 INFRARED WIRELESS TOUCHLESS SWITCH

Power Supply	DC3V
Technology	Infrared - Reflective
Detection Range	1~15cm ±5cm / LED or BUZZER
Reaction Sensitivity	< 1 sec
Current Consumption	< 0.5mWh
Operation Temperature	-20°C ~ +50°C
Dimension	95 x 95 x 20 (mm)
Protection Class	IP65



PRODUCT SPECIFICATION

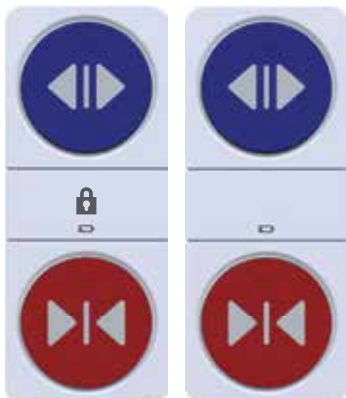
- For toilet entrances where easily accessible.
- Helps automate access to public toilets for people who ordinarily would require assistance.
- Less frequency jamming and easy pairing.
- Sound option: Korean/ English/ Beep

MODEL WHD4, WHD5, WHD6 WIRELESS AUTOMATED TOILET DOOR SWITCH SET

Power	1.5V AA 4EA Each (Switch) DC12~30V/AC12~24V (Receiver)
Related Frequency	2.455GHz
Current Consumption	Standby 30mA Operation 80mA (for DC24V)
Operation Temperature	-20°C ~ +50°C
Dimension	Transmitter: 135 x 135 x 19 (mm) Receiver: 150 x 43 x 25 (mm)
Protection Class	IP54



MODEL WHD8,9 WIRELESS AUTOMATED TOILET DOOR SWITCH SET




Power	1.5V AA 4EA Each
Related frequency	2.455GHz
Operation temperature	-20°C ~ +50°C
Dimension	90 x 220 x 15 (mm)
Protection class	IP65




FALCON
AUTODOOR

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