

AUTOMATIC REVOLVING DOOR USER MANUEL and INSTALLATION GUIDE

EXODOOR, automatic revolving door system complates your building in technicialy and architecturialy with its energy efficiency, isolating capacity of noise, temp and dirt by combine stylish apperance.

İMAJ YAPI OTOMASYON SİSTEMLERİ SAN VE TİC LTD.ŞTİ. 01.01.2024

İMAJ YAPI OTO.SİST.SAN VE TİC.LTD.ŞTİ.

Seyrantepe Mh. İbrahim Karaoğlanoğlu Cd.No:55 P.K:34418

KAĞITHANE / İSTANBUL

Tel. : 0212 270 00 44-45

Faks : 0212 270 44 11

www.exodoor.com.tr / info@exodoor.com.tr



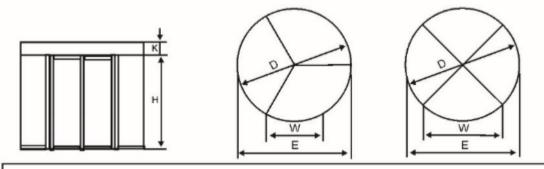




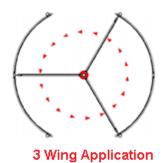
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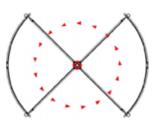
INTRODUCTION





D: Canopy External Diameter D1:Internal Diameter W: Passing Width H:Passing Height K: Canopy





4 Wing Application







2. TECHNICIAL SPECIFICATIONS

Technicial Specifications	Explanation		
Feed Input	220-230 Vac 50hz 16a(Single Phase)		
Motor and Reducer	0,25KW, 220VAC 3 Phase, Aynamahruti Reducer (Bonfiglioli, Italy)		
Engine Driver	0,4KW 220-230VAC 50-60 Hz Frequency Control Unit (EXODOOR, Türkiye)		
Activator Feed	110-240VAC 24V 5A Switchmode (Omron, Japan)		
System Controller	Industrial PLC (EXODOOR, Türkiye)		
Remote Control	Industrial HMI Touch Screen (EXODOOR, Türkiye)		
Readers	4 mm Metal Sensitive Sensor (Omron, Japan)		
Pneumatic Safety	EPDM Profiled Security Border (Aso, Germany)		
Photocell Safety	Safety Light Curtain with Passive Infrared Sensor (Bircher/Reglomat, Switzerland)		
Perception	Microwave Radar 24 Ghz (EXODOOR, Türkiye)		
Buttons	Touch Button Membrane Safety (EXODOOR, Türkiye)		
Lighting	220VAC 5W 6/8 Piece LED Spot (P.R.C)		
Locking	Locking from Electromagnetic Current Printed Motor (EXODOOR, Türkiye		
Canopy Construction	30x30 2mm Twisted Galvanized Steel Profile		
Forehead Veneer	Coated 2mm Twisted Aluminum Sheet		
Ceiling Covering	CNC Cutting 2mm Modular Ceiling System		
Middle Shaft	Aluminum Sigma Profile with 3/4 Wing Option		
Center Bearing	Special Oil Impregnated Vertical Carrier Derlin, Not Affected by Water and Dust.		
Twisted Aluminum Profiles	EXODOOR Patented Jointless Slatless Interlocking Series with Bending Suitable Design.		
Cheek Curved Glasses	8mm Tempered or 4+4 Laminated Transparent Curved Glass Specially Produced for the Door.		
Aluminum Wing Profiles	EXODOOR Patented Brush Cover, Wrapping-Free, Slatless Series.		
Wing Windows	Custom Made 8mm Tempered or 4+4 Laminated Transparent Flat Glass, Depending on the Door.		
Brushes	45mm Horsehair Brush that does not make noise or scratches.		

Optional Features	Explanation			
Presence Sensors	It is recommended to be used on doors with an outer diameter larger than 2800 mm.			
On-Wing Presence Sensors.	It is recommended to be used on doors with an outer diameter of 3800 mm and above			
Broken Wing (Break out)	It must be used in places where there is no service door.			
Automatic Night Shield	Single or Double Wing Automatic Circular Door Synchronized with the Door.			
Air curtain	Straight or Curved Air Curtain System Synchronized with the Door.			
Stainless Coating	304 or 316 Quality Polished, Satin or Special Patterned Stainless Plate.			
Colored Glass-Special Glass	Plain or Reflective Options on Cheeks and Wings.			
Wing Arms	Vertical or Horizontal Stainless or Aluminum Pipe Arms.			
Night Shield	Circular Sliding Door with Automatic and Manual Locking.			











BONFIGLIOLI MOTOR (ITALY) TECHNICAL SPECIFICATIONS;

Torque range 100 ... 14000 Nm

Mechanical rating (n₁ = 1400 min⁻¹) 0.22 ... 150 kW

Gear ratios

5.4 ... 1715

Output

Foot and shaft mount - two bore options per size Keyless shrink disc fitting Metric or Inch series solid output shaft Taper bushings matching more shaft diameters Splined hollow shaft to DIN 5480

Input

IEC and NEMA motor adaptors Servomotor adapters Metric or inch series solid input shaft

Main gear options

Backstop Reinforced bearings for higher overhung load capacity Reduced backlash Taconite seals

Applicable AC motors

Integral motors and brake motors - M series / ME series IEC-normalized motors and brake motors - BN series / BE series Single and dual speed motors

Main brake features

DC and AC supply Faster brake engage/disengage through electronically Controlled AC/DC rectifier type SB, NBR, SBR (options)

Main motor options

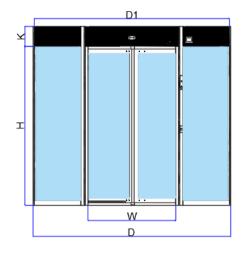
Thermistors and thermostat sensors Separate supply forced ventilation Line driver and push-pull incremental encoder

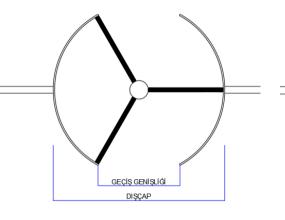


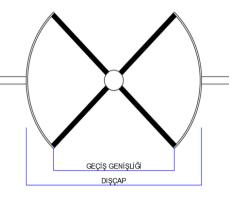
Туре	Torque [Nm]				
A 05	100				
A 10	150				
A 20	250				
A 30	410				
A 35	600				
A 41	850				
A 50	1500				
A 55	2000				
A 60	2800				
A 70	5000				
A 80	8000				
A 90	14000				











D: Canopy Extemal Diameter D1: Intemal Diameter W: Passing Height H: Passing Height K: Canopy

	D1	w/2			14	
D	D1	W/3	W/4	Н	K	
2000	1895	912	1326			
2100	1895	962	1397			
2200	1995	1012	1468			
2300	2095	1062	1539			
2400	2195	1112	1610			
2500	2295	1162	1681			
2600	2395	1212	1752			
2700	2495	1262	1823			
2800	2595	1312	1894			
2900	2195	1362	1965			
3000	2295	1412	2036	2100 - 2200	200 - 1000	
3100	2395	1462	2107			
3200	2495	2512	2178			
3300	2595	1562	2249			
3400	1995	1612	2320			
3500	2095	1662	2391			
3600	2195	1712	2462			
3700	2295	1762	2533			
3800	2395	1812	2604			
3900	2495	1862	2675			
4000	2595	1912	2746			

* All sizes are in mm.

* All sizes can be changeable according to project.

* On demand sizes is available.



A. REQUIRED TOOLS;

- 1. Diriller (battery powered recommended)
- 2. Srewdriver, socket wrench (battery powered recommended)
- 3. Marker (or pencil)
- 4. Silicon and gun
- 5. Leveler

B. PREPEARING THE INSTALLATION;

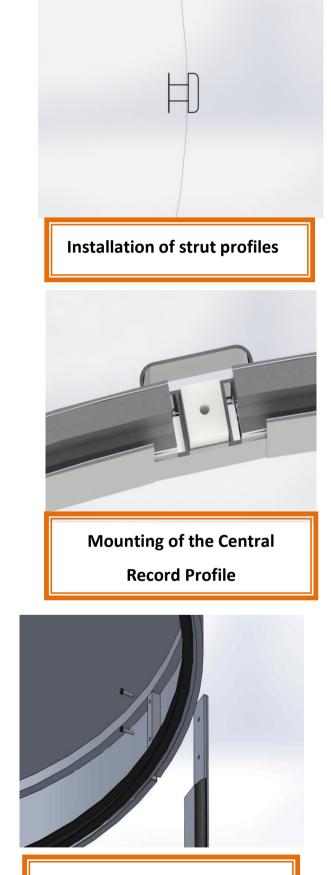
- 1. Check the sizes and ground level before the installation.
- 2. Level out the roughness on intallation ground.
- 3. Clean the installation ground.

C. THE INSTALLATION;

- C.1. Ground drawing and installation;
- C.2. Installation of canopy and strut profiles;
- C.3. Assemble of skirt profiles;
- C.4.Curved Glasses;
- C.5. Ceiling Sheets;
- C.6.Middle Strut;
- C.7. Assemble of Door Leafs Handles;
- C.8. Siliconing and Door Operation Control,







Make The Connection To The Canopy,









D. LCD PANEL USAGE AND SETTINGS;

The LCD panel is a touchscreen digital display with a user-friendly interface that shows you status of door and allows you to set general settings. You can make basic settings using the LCD panel.

The PLC CONTROLLER with a special MAC address allows remote access through the necessary settings and PORT forwarding.

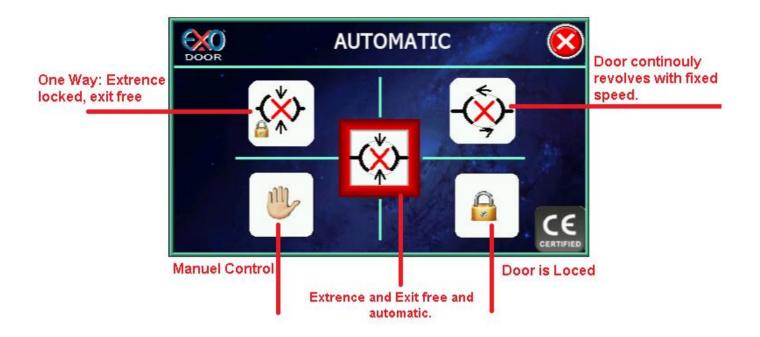
Also, since HMI is able to see temporary or permanent error Codes on the screen, without hassle for fault detection,

According to the Error Code on the screen without losing time is resolved.

D.2 General settings;

D.2.1 Position Settings;





D.2.2 System Monitoring;



This feature allows to check every Electronical component located on door such as photocells, sensor etc.



Green: Active

Red: Inactive







SLOW SPEED: Slow speed of the door before it starts moving.

HANDICAPPED SPEED: Slow speed for the handicappeds.

NORMAL SPEED: Normal movement speed.

JOG ACC. SPEED: Accelaration speed for the door's first movement.

JOG SLOW SPEED: Set speed of the door stops.

CURRENT LIMIT: Current multiplier; this setting shouldn't be changed with unauthorizeds.

CURRENT READ: Instantaneous value of current multiplier.

LOCK TIME: Duration of the door detects jumming.

SAFE STOP TIME: Duration from stationary position to moving position.

