

PHOTOCELL SLIDING DOORS



DATASHEET

Mechanism Length (maximum)	:	4
Net Passage Width (maximum)	:	2
Capacity	:	14
Timing Belt	:	8
Frame Profile	:	8
Opening Speed	:	8
Closing Speed	:	7
Power Consumption (maximum)	:	10
Supply Assembly	:	2
Motor	:	G
Emergency Operation	:	В
Waiting period	:	0
Operating Temperature	:	-2
Protection Class	:	IP

4100	mm

2000
140 kg single / 240 kg double pan
8mm - 12mm
80x172x118 mm
80cm/s
70cm/s
100 W
220 - 230 V ac/50 hz
GERMAN DUNKER
Battery (Optional)
0-60 s
-20° +55°
IP 22



Control

Unit





Position switch 2x16 LCD digital position switch 485 protocol with RC14 socket





The radar range is up to 6 meters and not affected by external factors ensuring stable operation. NO Contact



Spot Photocell 9-24 VDC operating voltage 6 meters distance SSR NC or NO output

Dunker

Motor



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The photocell sliding door processor board software and production are entirely self-owned and the software can be updated according to requirements.

Mini Control Unit

PHOTOCELL SLIDING DOORS







B = (LW2) + 10 cm

service team.

2 Mobile 2 Fixed Panel System B = (LW2) + 10 cm

The **DARA AUTOMATIC DOOR SYSTEMS** are used indoors and outdoors with the thin profile system exclusively designed for automatic doors, E profile joints, brush wicks and 4+4 mm laminated glass.

The strong and smooth rail profile of the mechanism provides quiet and long-lasting operation, and the safe pulley system ensures high security against derailing.

All door systems are designed, measured and made ready for assembly through our the architectural solution group, trained assembly personnel and trained after-sales



2 Mobile Panel System (Curtain Wall Application) B = (LW2) + 10 cm



1 Mobile Panel System B = (LW2) + 10 cm



TELESCOPIC DOOR

DR X-2 (German Engine Mechanism)



DATASHEET

Mechanism Length (maximum)	:	4100-6500 mm
Net Passage Width (maximum)	:	2000-4000 mm
Capacity	:	160 kg double / 240 kg 4 panels
Timing Belt	:	8mm - 12mm
Frame Profile	:	80x264x18 mm
Opening Speed	:	80cm/s
Closing Speed	:	70cm/s
Power Consumption (maximum)	:	100 W
Supply Assembly	:	220 - 30 V ac/50 hz
Motor	:	GERMAN DUNKER
Emergency Operation	:	Battery (Optional)
Waiting period	:	0-60 sn
Operating Temperature	:	-20°+55°
Protection Class	:	IP 22



The automatic telescopic door system is ideal for constricted entrances. This system enables the sliding blades to open unto each other at relative speeds. The telescopic panels open unto each other at the entrances where other automatic door systems cannot provide the required passage clearance, and thus eliminate the issue of passage.

ECONOMIC SERIES







Mechanism (Side View)

DATASHEET Mechanism Length (maximum) :

3300 111	33	00	mn
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Net Passage Width (maximum)	:	1600
Capacity	:	100 kg single /
Timing Belt	:	8mm - 12 mm
Frame Profile	:	82x150.5x118 mr
Opening Speed	:	80cm/s
Closing Speed	:	70cm/s
Power Consumption (maximum)	:	100 W
Supply Assembly	:	220 - 230 V ac
Motor	:	Domestic KORN
Emergency Operation	:	Battery (Option
Waiting period	:	0-60 s
Operating Temperature	:	-20° +55°
Protection Class	:	IP 22

n

180 kg double panel m /50 hz MAS nal)



Remote Control

17



DR X - EKO Radar

18



External Safety Photocell



PANIC BREAK-OUT





Properties

- Excellent performance

- Smooth adaptation to individual
- requirements

- The sliding and fixed panels used in the panic break-out system are 90° breakable and are suitable for

- emergency exits and escapeways.
- Number of adjustable parameters

- Various connection types achievable as standard

- Ready for assembly delivery, and assembly and commissioning upon request

Suitable for Emergency Exit and Panic Break-out routes

Glass Types

- 4+4 mm laminated glass
- Exclusive glazing

DATASHEET

Passage width	1000 - 2500 mm
Escapeway width	910 - 2410 mm (2H)
	2030 - 5030 mm (2H2S)
Total width	2520 - 5520 mm
Panel weight (max.)	2 x 110 kg
Passage height (LH)	2100 - 2500 mm
Mechanism dimensions	80x172x118 mm
Transome glass panel	Optional



1 Mechanism cover, motor, carrier system and control unit

2 Tempered or laminated glass sliding door panels with panic break-out system

3 Fixed side panels with panic break-out system

4 Transome glass panel or Transome fixed panel (optional)



5 Safety Photocells

6 Activator, e.g. radar motion detector

F: Escapeway width with door panel and fixed panels

AUTOMATIC REVOLVING DOOR



AUTOMATIC REVOLVING DOOR



DATA SHEET

- FEEDING ENTRY
- MOTOR AND REDUCER

(

- MOTORCYCLE DRIVER
- ACTIVATOR FEEDING
- SYSTEM CONTROLLER CONTROL
- READERS
- PNEUMATIC SAFETY • PHOTOCELL SAFETY
- DETECTION
- BUTTONS
- LIGHTING
- LOCKING

220-230 Vac 50hz 16a(Single Phase)
0.25KW, 220VAC 3 Phase , Mirror corridor Reducer
0.4Kw 220-230VAC 50-60Hz Frequency Control Unit
10-240VAC 24V 5A Switchmode
Industrial Plc
ndustrial HMI Touch Screen
4 mm, Metal Sensitive Sensor
EPDM Profiling Security Border
Passive Infrared Sensitive Security Light Barrier
Microvave Sensör 24Ghz
Touch-sensitive Membrane Label
220VAC 5W 6/8 Adet LED Spot
Electromechanic Current Locking from Printed Motor

(Bonfiglioli,İTALYA); (Dara,TÜRKİYE); (Omron, JAPONYA); (Dara,TÜRKİYE); (Dara/TÜRKİYE); (Omron, JAPONYA); (Aso,ALMANYA); (Bircher/Reglomat, iSViÇRE); (Dara,TÜRKİYE); (Dara,TÜRKİYE); (P.R.C); (Dara,TÜRKİYE);



AUTOMATIC 90°





Offers an innovative and convenient method to effortlessly open and close 90 degree opening doors. The elegance and the life facilitating features of the DARA "Contour Design" render DARA AUTOMATIC DOOR SYSTEMS exclusively suitable for interior doors.

ISO 9001 certified production.

• Automatic panel opening mechanism for pivot doors

• Easy open and shut

Compact dimensions

Push and pull direction, panel or frame mount
 Easy installation - "plug and go" delivery

• TEMPERATURE : -20°C + 55°C

• POWER : AC 200V- 240V

DATA SHEET

- PROTECTIN CLASS : IP 12 D
- PRODUCT WEIGHT : UNITE 5,5 KG, PULL BAR 0,9 KG TOTAL 6,4 KG
- PRODUCT SIZE : 618 x 81 x 115 mm
- MAX OPEN ANGLE : 110°





HERMETIC SERIES







DATA SHEET

- MECHANISM LENGTH (MAXIMUM) : 4000MM
- NET PASSING DISTANCE (MAXIMUM) : 1900MM
- CARRYING CAPACITY : 200KG / 500KG
- TRACTION : 3M STRAP
- WING MATERIAL : 304 QUALITY BI CLASS STAINLESS PLATE
- WING THICKNESS : 40MM / 50 MM
- OBSERVATION WINDOW : 40MMx40MM ENAMEL PAINTED TEMPERED 4MM GLASS
- GASKET THAT PROVIDES LEAKING : COLD AND HEAT RESISTANT EPDM wick
 MODE SELECTIONS : MANUAL-FULL CLOSING- ONE WAY
- -AUTOMATIC-HALF OPENING
- OPENING SPEED : 40-90 ARASI (STANDARD FACTORY SETTING:60)
- CLOSING SPEED : 40-90 ARASI (STANDARD FACTORY SETTING:40)
- STANDBY TIME : 0-90 ARASI (STANDARD FACTORY SETTING:1)
- ENERGY CONSUMPTION (MAXIMUM) : 55Ma-24V DC
- FEEDING INSTALLATION : 15-28 V DC
- ENGINE : DUNKER
- WORKING IN EMERGENCY SITUATIONS : BATTERY (OPTIONAL)
- OPERATING TEMPERATURE :- 25° + 55

Hermetic Door Systems

The hermetic doors, which have specific application areas such as operating rooms, laboratories and even recording studios requiring impermeability, ensure operation in full contact with the wall and ground and meet the air tightness requirement. This is a system safely deployable in any environment requiring air and sound insulation, particularly in operating rooms and laboratory rooms where air tightness (hermetic seal) feature is required. The hermetic door mechanism and panel design is in an extremely ergonomic structure styled with dust-free smooth surfaces as required in completely sterile environments.

Hermetic doors that can be equipped with motion sensors or elbow buttons not requiring hand contact to ensure hygiene in sterile environments are also operatable via recessed type radar sensors disguised inside the mechanism in case of availability of suitable distances. The recessed type safety photocell also disguised inside the mechanism cover functions as a curtain photocell integrated with the radar sensor, and thus ensures the hermetic door panel movement safe.

The Dara Automatic Door Systems are available in three selections of different construction elements and surface coatings: MDF-Lam, Compact laminate (compact laminate) and stainless steel, and this hermetic door model is a professional product with test reports and certifications fully complying with the technical specifications stipulated by the Ministry of Health and TOKİ, and fully compliant with the universal standards and norms. The articulated structure in the mechanism enables the panel to enter into the slot through a simultaneous horizontal motion towards the end of the closing movement whereas the exclusive guiding element pushes the panel against the wall and the panel gets shut by applying pressure all 4 sides of the door clearance. Finally, the seals on the hermetic door panel and frame complement the feature of airtightness of the hermetically sealed doors.



SYSTEM ACCESSORIES (KIT)

02



DR X - 1 Processor (MAINBOARD)



Position switch 2x16 LCD Digital position switch 485 protocol with RC14 socket



DR X - 1 Radar



Mechanical Wheel Sets and Valve

04



Motor: 100 Watt Photocell Door Motor with DC 24V Encoder 15:1 reducer

06



Spot Photocell 9-24 VDC operating voltage 6 meters distance SSR NC or NO output



SYSTEM ACCESSORIES (OPTIONAL)

07	08	99
Glass Holder	Glass Holder	Magic switch (Hand Sensor)
Fingerprint access control	Remote Control	Password Panel and Card Reader
13 A B B Manual Photocell door panel lock	14 Flectromechanical automatic door lock	15 The second s
16	05 DR X = 1 Radar	DR X - EKO Padar
18 External Safety Photo	19 Cell	DR X EKO (MAINBOARD)
External Salety Photo		DA A LAO (WANDOARD)



SPECIFICATIONS (TECHNICAL CHARACTERISTICS)

PHOTOCELL DOOR ELECTRONIC CONTROL SPECIFICATIONS

Dunker German motor shall be used, technical specifications: Our factory DARA GROUP shall provide 1,000,000 (one million) times of opening and closing guarantee.

1-) It has a feature of 3 stage speed adjustment on door opening direction (1-2-3-parameters opening speed opening approach distance approach speed)

2-) It has a feature of 3 stage speed adjustment on door closing direction.(4-5-6-parameters closing speed closing approach distance approach speed)

3-) Duration of door at open position can be adjusted between 1-30 sec.

4-) In the case of failure of door photocell, closing or opening can be done be selecting stage 1/0 from respective menu parameter for temporary operation of the door.

5-) Learning speed used during initial energizing can be adjusted on the respective menu and can be changed according to position of the door.

6-) Partial opening distance adjustment is used on winter mode. It is adjusted from the menu as % proportion according to distance position to be used, and stored. (This mode is preferred at pharmacies on duty.)

7-) In the case of activating electronic lock position from parameter, lock is activated and deactivated on each opening and closing. This mode is generally used in hospitals, private places that requires security and operating rooms. Locking system is operated as 24 v dc, it stays in towed position when the door is active and absolutely no warming occurs on locking system.

8-) Motor direction adjustment can be made from parameter without necessity of change of motor ends.

9-) Opening and closing time is arranged to activate test mode from parameter. On test mode, the door is automatically opened and closed and you can see on screen at opening total.

10-) By consideration density of passing traffic, it automatically adjusts duration of door at open position according to signals coming from photocell and radar.

11-) Technique of driving the motor is at 4 zones. Our electronic circuit smoothly controls motor between 60 w and 300 w, it operates smoothly especially on where the passing traffic is dense.(hospitals, pharmacies, hypermarkets, shopping centers, governmental agencies, banks, hotels, markets, grocers)

12-) When air curtain is active on parameter, it stays activated until door is opened and closed. Air curtain does not operate when the door is closed. It provide energy saving for end user (optionally, air curtain is controlled on wire-less rf. Our radio operates as code oppinc between 433 mhz – 868 mhz frequency bands.)

13-) Motor current adjustment can be changed, it is selected according to motor and door dimension. While current is being selected, feeding watt power should be selected and adjusted accordingly in accordance with motor power.

14-) Number of obstacle recognition and obstacle crashing adjustments can be made according to door opening/- closing direction.

15-) When there is an obstacle of opening/closing direction, failure of electronic card and damage on mechanism by door is prevented thanks to shunt system which take motor under protection.

16-) In the event that door is mechanically jammed or overlapping jamming by selecting from parameter, the proportion of given number is perceived as permanent obstacle. After failure is eliminated or problem is solved, learning position is returned back by pressing auto button (this number is between 3 and 6)

17-) Motor lock thrust adjustment is stored by selecting a 4 kg or 8 kg thrust force from parameter according to demand of customer. As 4 zones driving technique is used, thrust adjustment on opening direction is only as required and in minimum current value, so it does not lead to motor warming. The door is automatically opened when a fore more than adjusted thrust force is applied.

18-) Optionally, it can be used as safety alarm system when door is at locking position.

19-) Optionally, by adjustment from parameter and enabling battery system, internal or external radar of the door can be activated or deactivated for requested real times.

20-) It is supplied by switch mode power supply. It is not effected from network fluctuations as input voltage operates between 170 v ac and 240 v ac.

21-) Air lock system is possible by communication of door's main card to other boards. Doors can be opened in turn by setting priorities for opening.

22-) Door card operates in conformity with all axcess inputs. (Axcess input systems which we have produced within ourselves are implemented in various corporate companies.(rfid 125 khz -13.56 mhz, 868 mhz contactless. Together with approach sensor, length photocell, encoded passing control and automation infrastructure.)

SPECIFICATIONS (TECHNICAL CHARACTERISTICS)



23-) Door main card can be addressed and perform intervention and follow up to menu adjustments, door parameters and failure cases with all doors from a central point. Our system uses 485 protocol and Ethernet communication system.

24-) Thanks to private code and driving technique of photocell unaffected by external factors, it operates the system smoothly and can produce beam (point) signal by operating even at variable measure differences between two eyes (receiver and transmitter). Even for two eye systems, it can be opened as single transmitter and double receiver and create a detection curtain, so safety of the door is increased.

25-) Thanks to 2x 16 monitor on electronic position switch, adjustment of parameters can be done visually and user can be warned visually and soundly in case of failure and mistaken operations during installation. As the cable connection between main card and position switch uses rs485 communication protocol, cable of position switch can be expanded until desired point between 1 and 300 mt.

26-) Reset can be done by pressing the button on position switch without requirement of energy cut and then reconnect on door battery system.

27-) Automatic opening/closing position of doors through central control system in case of emergency, fire, flood, earthquake.

28-) Our remote control module can be connected to shutter system, alarm system and sliding door system at the same time. Customer is set free from carrying more than one controller. Our remote controller has a software and hardware capable doing 3 different tasks together.

29-) Parameter menu adjustments can be made during operation of door.

30-) Entrance into menu can only be made by authorized service staff through specified password.

31-) Product serial no and installation date of door can be entered on menu during service and product follow-up for guarantee can be facilitated in this way.

32-) Turkish or English language options are available, alternative languages can be added on demand.

33-) Safest driving features can be achieved thanks absolute encoder or incremental encoder options. (our system is the only one that presents these two feature together on a door.) It has a feature to resume on after power cut is disappeared.

34-) Thanks to factory settings feature, mistaken adjustments on parameters can be reset and system can be turned to its previous position.

35-) When battery performance is under specific standards after a while, a decrease of battery performance warning appears on screen on position switch.

36-) It displays the battery is on by visual and sound signal in case power failure in mains. It can be opened/closed in the number given from parameter until energy is on. After this number is completed, door is kept at open position for safety reasons. It visually and soundly warns again when energy is on and battery is charged by charge system and waits actively ready.

37-) Display of error messages on screen (opening direction error, closing direction error, permanent error, motor error, photocell error, lock error EMERGENCY, internal or external radar error Axcess input error, encoder direction error, battery on change battery.)

38-) Pcb feature of electronic main card; copper-clad area is 0,70 micron and pcb is 2 mm thickness. Thanks to this feature, the fact that exposure to interference performance is in good level, filtering systems are enabled, components are under protection minimize failure rate.(The company printed out our pcb card is one of the pioneer three companies in this segment in Far East. There is no company in Turkey that provide this quality.) If certifications such as CE-TÜV-TSE shall be needed for the future, products should be manufactured in accordance with these standards.

39-) As the background of hardware of electronic card is appropriate for potential additions to specifications, adaptation and providing service in short time is available.

40-) Airlock output can be operated 868.35 mhz wireless optionally.