SLIDING GATE

INSTALLATION AND MAINTENANCE HANDBOOK

WARRANTY CERTIFICATE

KK-1302-0005 R(4)
Y.T.05.08.2020

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SLIDING GATE (SG 55)
TECHNICAL SPECIFICATIONS

Power Requirements : 110/220-240V. 60/50Hz. AC (%±10) 24V.DC
-At standby ~10W. During operation ~39W. (Single-sided)
-At standby ~20W. During operation ~78W. (Centre unit)

Wing Movement : Electronically controlled rapid wing movement for quick and smooth passages.

Wing Features : Soft blue illuminated 12mm impact resistant tempered glass (Opt. polycarbon) wings.
A passage lane consists of two single-sided units.

Top Lid : 20 mm. thick natural granite (Star Galaxy Black) stone on top is standard feature for a decorative and aesthetical appearance. Different granite patterns and colours are available. (Opt. stainless steel, tempered glass or wood)

Body Features : 304-Grade satin finished stainless steel.
Stainless steel and acrylic plates for both directions are provided with the top lid for covering reader devices. Adequate space is available under these plates for installation of various reader devices and wiring. Acrylic plates are recommended for the integration of RF units

Indicator & Display Features
: On the front panels, DOT MATRIX animated LED status displays of Green Arrow and Red Cross are provided as standard feature.
In addition, an illuminated acrylic layer under the granite top lid is included. At standby, the acrylic layer illuminated in blue; during authorised passages it flashes green; when an unauthorized attempt is detected or during alert mode it flashes red.

Operating Temperature, Humidity, IP Rating
: -20°C - +68°C / RH 95% non-condensing / IP 44 indoor model

Minimum Passage Performance : 15 Million passages

Control System : All inputs are opto-coupler protected .Controlled by dry contact or grounding input. Compatible with all access control systems that provide dry contact or grounding outputs. Optional RS232/RS485/TCP IP control module is available.

SLIDING GATE (SG 55)
TECHNICAL SPECIFICATIONS

System Features& Operation

:Microprocessor controlled, PWM DC motor driven mechanism; multi sensor IR passage detection system. The wings are closed crossing the lane at standby. Wings open rapidly to allow passage when input is received by either direction. Internal dip switch selectable; free passage by photocell detection, restricted access, controlled access on both or single direction modes are built in features.

Output Data **:** The system provides dry contact passage feedback by relays.

Emergency Mode **:** The system allows free passage by opening the wings while turning all indicators and wings green upon receiving emergency input from an alarm system. Wings open automatically in case of a power failure in default fail-open mode (powered by internal back-up battery). User can select fail-closed mode by internal dip switch.

Wing Speed **:** Wing speed is electronically controlled by adjustable PWM motor drive system.

	Passage Width 550 mm
Wing Height 900 mm	~ 0,8 seconds factory default
Wing Height 1200 mm	~ 1,0 seconds factory default
Wing Height 2000 mm	~ 1,2 seconds factory default

- ❖ The above figures are for standard tempered glass wings.
- ❖ Default speeds can be adjusted by consultation at the time of order

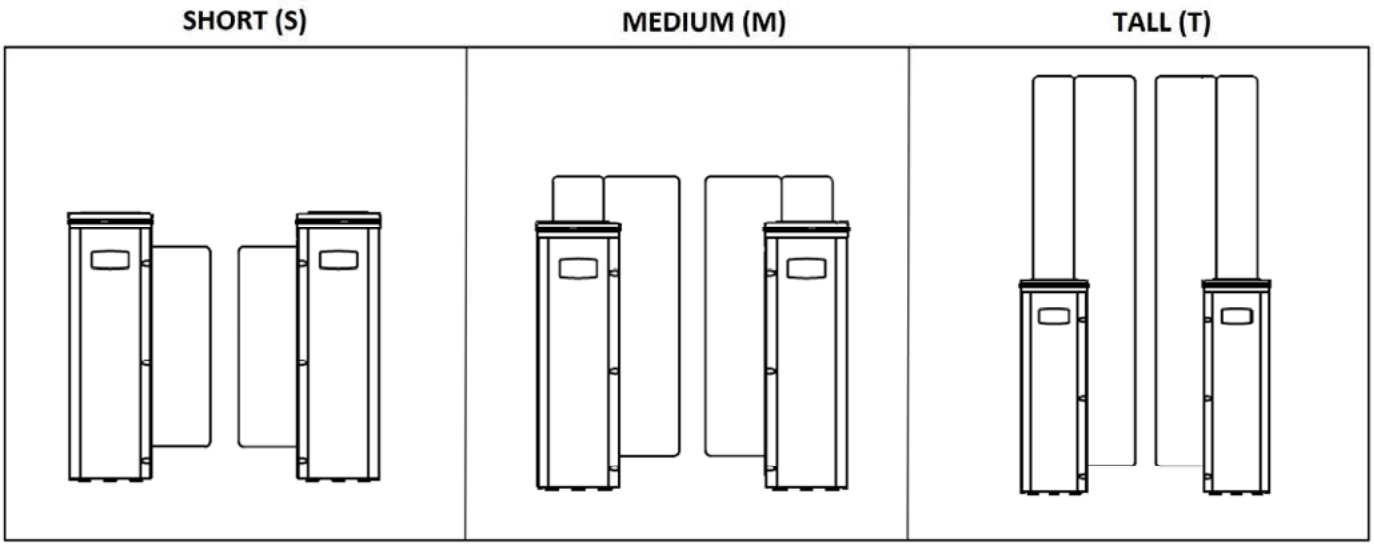
Flow Rate **:** Capacity of Mechanism**:** ~1-120 passages/minute; Nominal: ~25-50 passages-per-minute (Recommended reference figure).

- ❖ Utilisation of different access control units can change the flow rate.

Standard Features **:** Dot matrix direction and status indicators, natural granite top lid, stainless steel and acrylic reader cover plates for both directions, luggage trolley passage functionality.

Optional Accessories and Applications

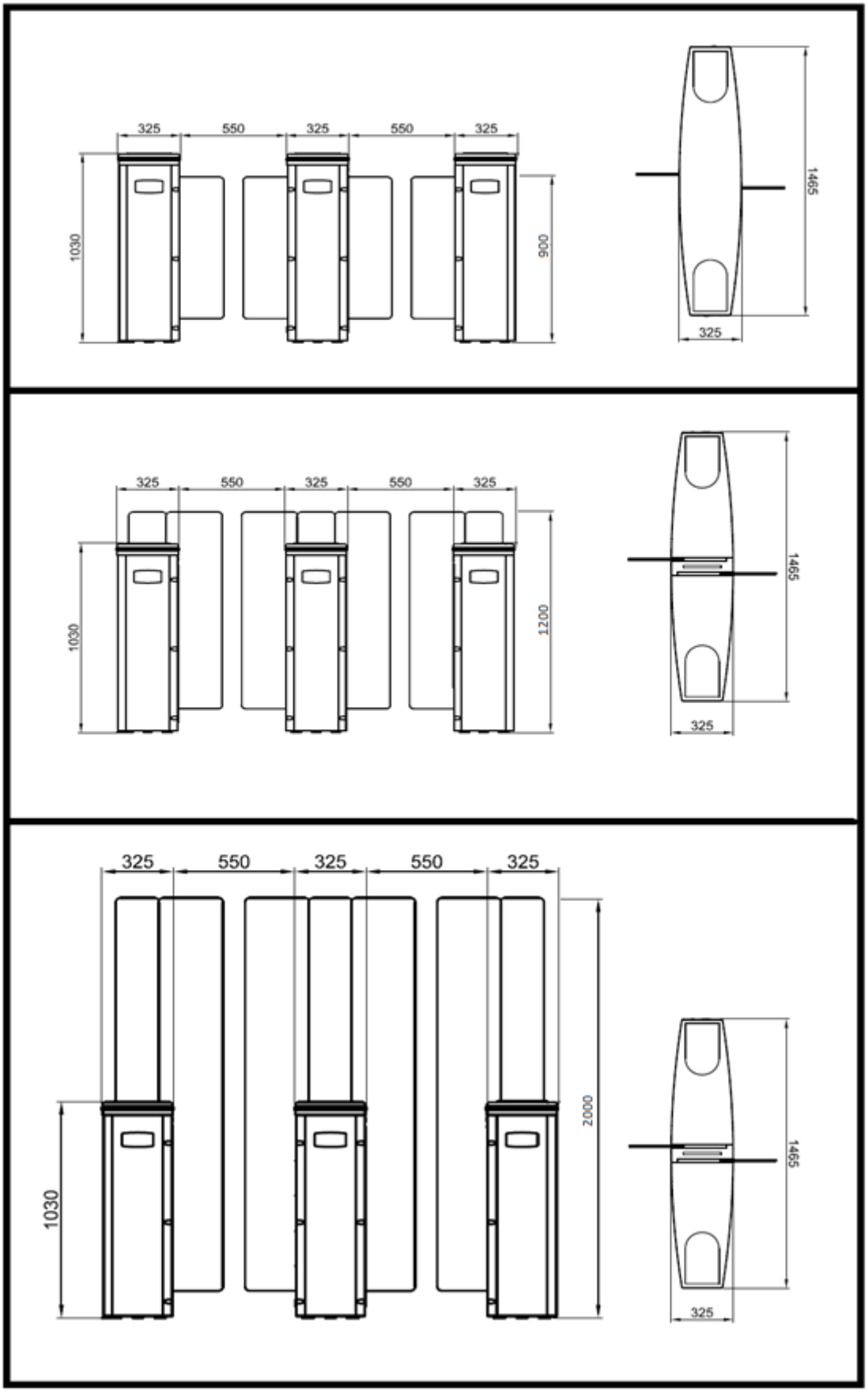
: Tempered glass side (lateral) panels, remote control unit, interface unit for PC, RS 485, RS232 and LAN, counter, audio-messaging system, alarm sensor, bottom plate, coin slot/intelligent coin system and coin box, separator, card reader pole.



**Design and specifications are subject to change without notice.*

***As the top lid is made of natural granite, it may have variations in color tones and patterns.*

SLIDING GATE (SG 55)
TECHNICAL SPECIFICATIONS



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SLIDING GATE (SG 90)
TECHNICAL SPECIFICATIONS

Power Requirements : 110/220-240V. 60/50Hz. AC (%±10) 24V.DC
-At standby ~10W. During operation ~39W. (Single-sided)
-At standby ~20W. During operation ~78W. (Centre unit)

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Wing Features : Soft blue illuminated 12mm impact resistant tempered glass (Opt. polycarbon) wings.
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Body Features : 304-Grade satin finished stainless steel.
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Indicator & Display Features
: On the front panels, DOT MATRIX animated LED status displays of Green Arrow and Red Cross are provided as standard feature.
In addition, an illuminated acrylic layer under the granite top lid is included. At standby, the acrylic layer illuminated in blue; during authorised passages it flashes green; when an unauthorized attempt is detected or during alert mode it flashes red.

Operating Temperature, Humidity, IP Rating
: -20°C - +68°C / RH 95% non-condensing / IP 44 indoor model

Minimum Passage Performance : 15 Million passages

Control System : All inputs are opto-coupler protected .Controlled by dry contact or grounding input. Compatible with all access control systems that provide dry contact or grounding outputs. Optional RS232/RS485/TCP IP control module is available.

SLIDING GATE (SG 90)
TECHNICAL SPECIFICATIONS

System Features & Operation
: Microprocessor controlled, PWM DC motor driven mechanism; multi sensor IR passage detection system. The wings are closed crossing the lane at standby. Wings open rapidly to allow passage when input is received by either direction. Internal dip switch selectable; free passage by photocell detection, restricted access, controlled access on both or single direction modes are built in features.

Output Data **:** The system provides dry contact passage feedback by relays.

Emergency Mode **:** The system allows free passage by opening the wings while turning all indicators and wings green upon receiving emergency input from an alarm system. Wings open automatically in case of a power failure in default fail-open mode (powered by internal back-up battery). User can select fail-closed mode by internal dip switch.

Wing Speed **:** Wing speed is electronically controlled by adjustable PWM motor drive system.

		900mm passage width
Wing opening / closing speed	900mm Wing Height	~1,3 sec. by default
	1200mm Wing Height	~1,6 sec. by default
	2000mm Wing Height	~1,8 sec. by default

* default speeds can be adjusted by consultation at the time of order.

- The above figures are for standard tempered glass wings.

Flow Rate **:** Capacity of Mechanism**:** ~1-120 passages/minute; Nominal: ~25-50 passages-per-minute (Recommended reference figure).
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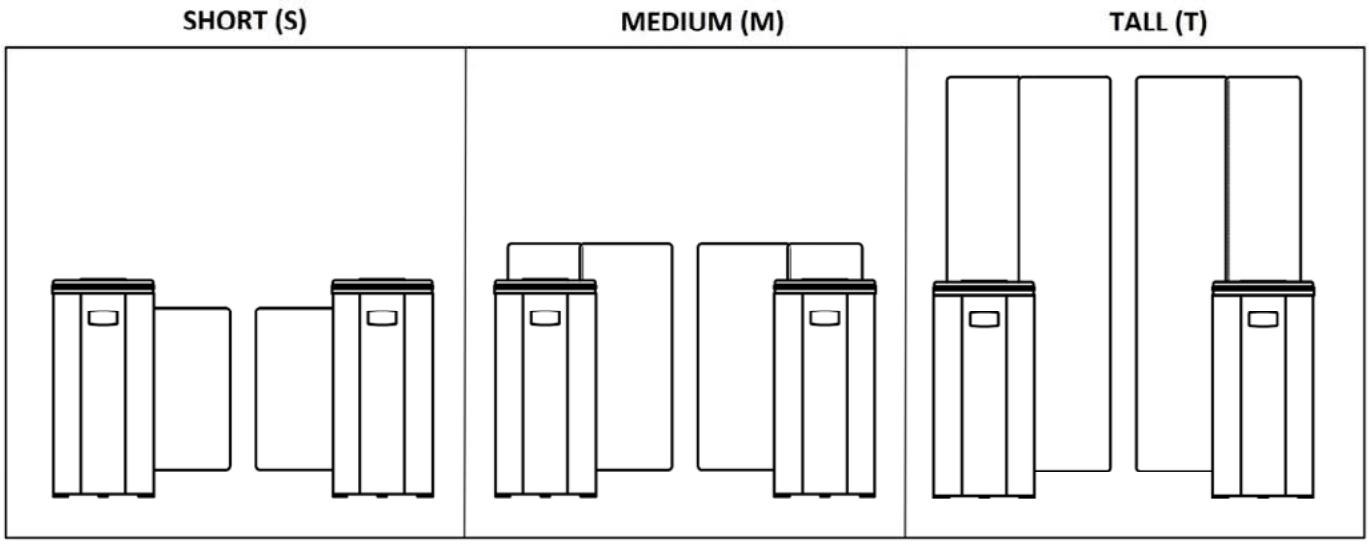

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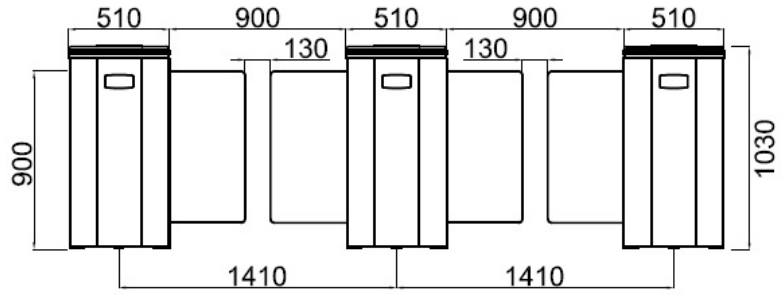
**As the top lid is made of natural granite, it may have variations in color tones and patterns.*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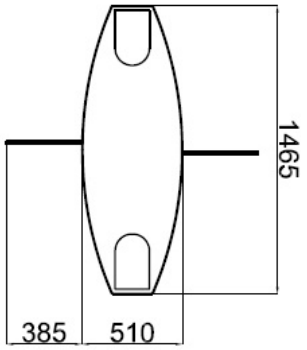
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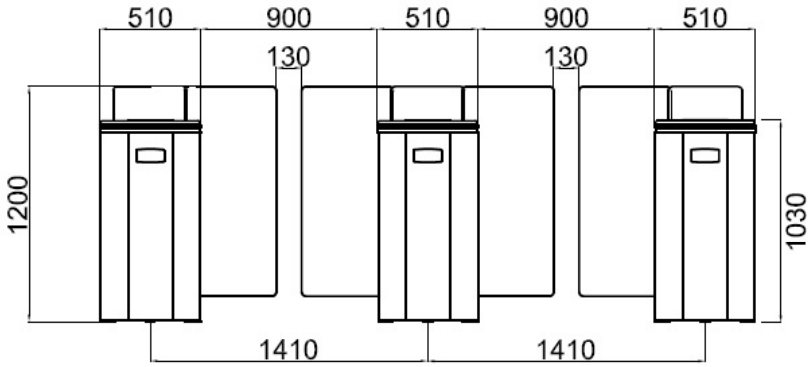
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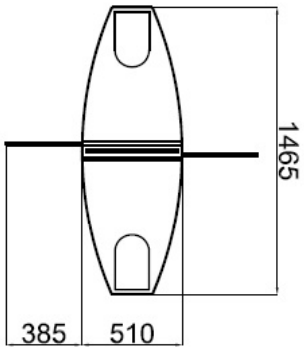
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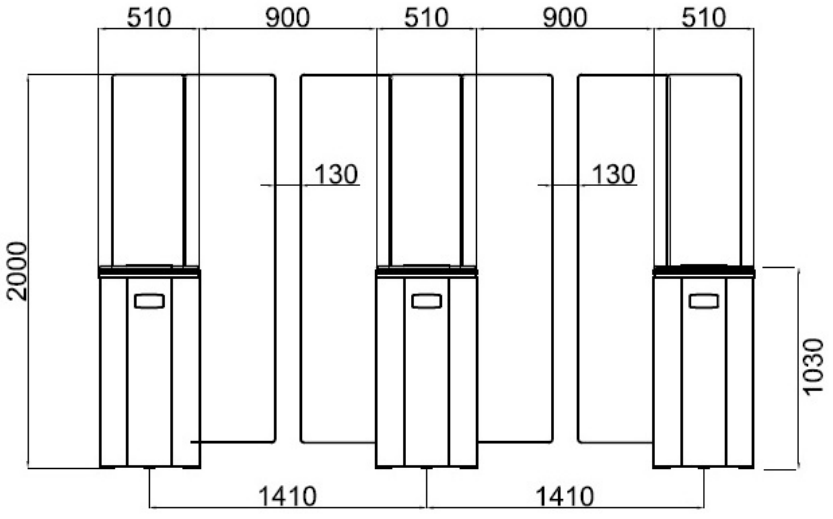
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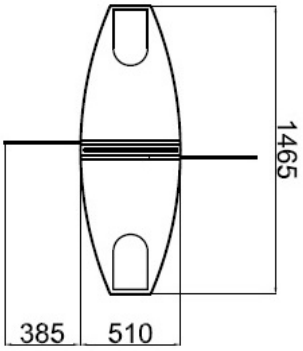
1465
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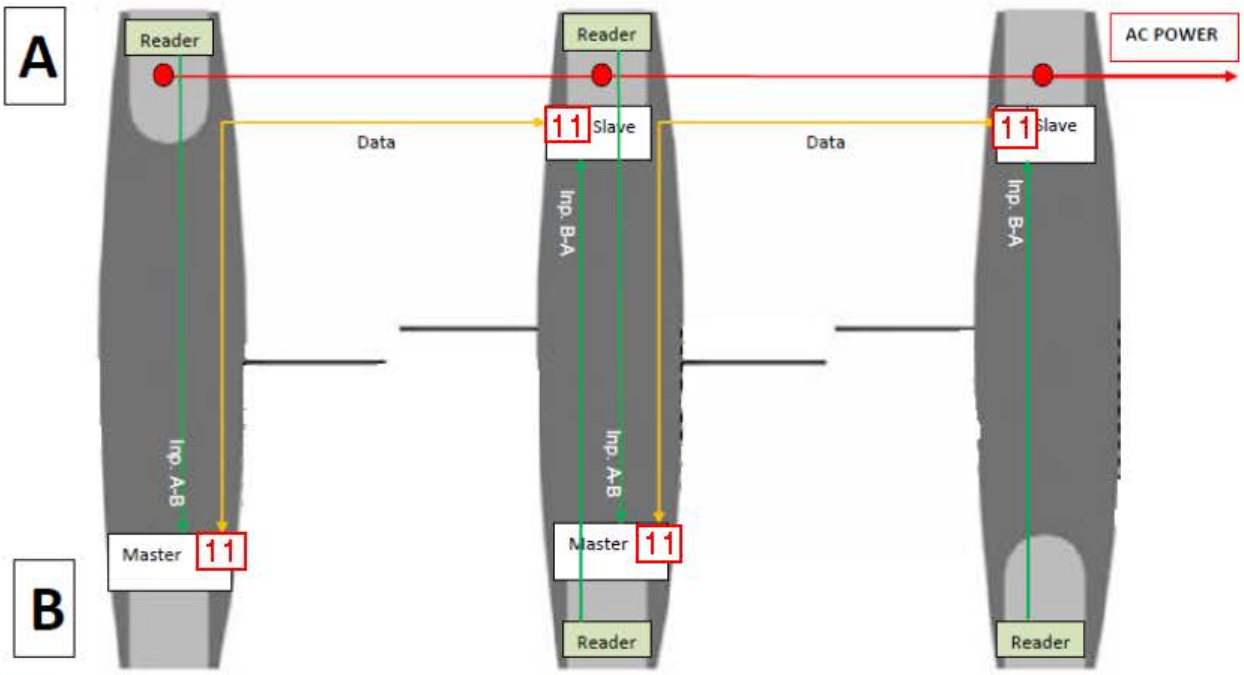
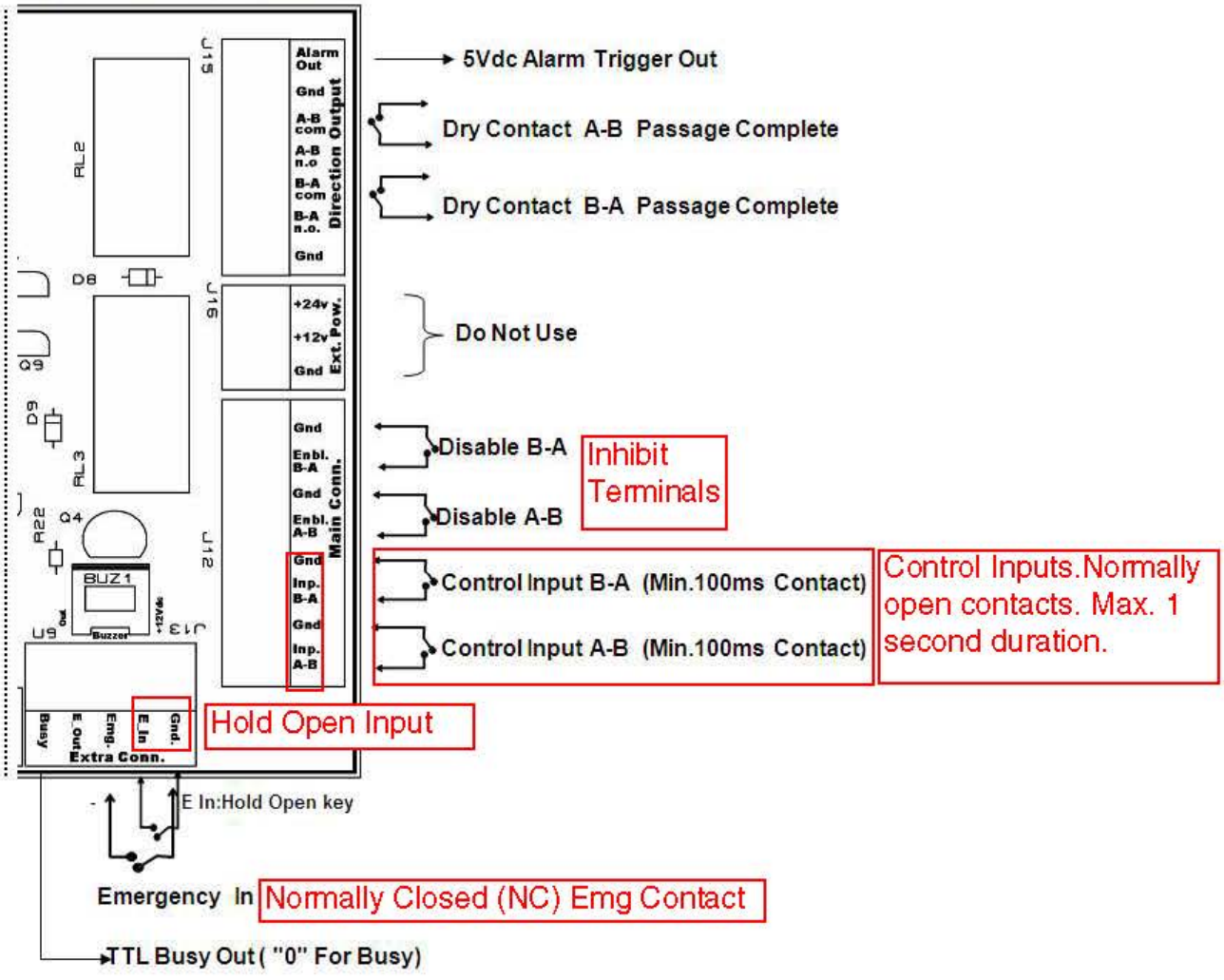
510

INSTALLATION WIRING DIAGRAM



CAUTION ! IR Receivers on Master units should not be exposed to direct sunlight or other IR sources.

User Control Terminals



PRODUCT INSTALLATION / DELIVERY CONTROL FORM

NAME OF INSTALLER	:	PRODUCT MODEL NO	:
INSTALLATION DATE	:	SERIAL NUMBER	:
INSTALLATION LOCATION	:	FIRMWARE VERSION	:

	YES	NO
INSTALLER HAS OZAK TECHNICAL TRAINING CERTIFICATE		

INSTALLATION CHECKLIST

	DESCRIPTION	YES	NO	REMARKS
1	INSTALLATION SURFACES FLAT AND EVEN WITH SUFFICIENT STRENGTH			
2	TURNSTILES ARE PROPERLY POSITIONED / ALL ANCHORING BOLTS ARE TIGHT AND SECURE			
3	ALL WIRING IS PROPERLY LAID OUT AND CONNECTED			
4	POWER CABLES ARE PROPERLY GROUNDED AND INSULATED			
5	MASTER / SLAVE DATA CABLES AND CONTROL INPUTS ARE CORRECTLY CONNECTED			
6	ALL COVERS AND PANELS ARE CORRECTLY INSTALLED			
7	ALL PHOTOCELLS ARE FREE OF OBSTRUCTION/ No direct sunlight on Master sensors			
8	TURNSTILES ARE FREE OF SCRATCHES, DENTS OR OTHER DAMAGE			

FUNCTIONAL CONTROL CHECKLIST

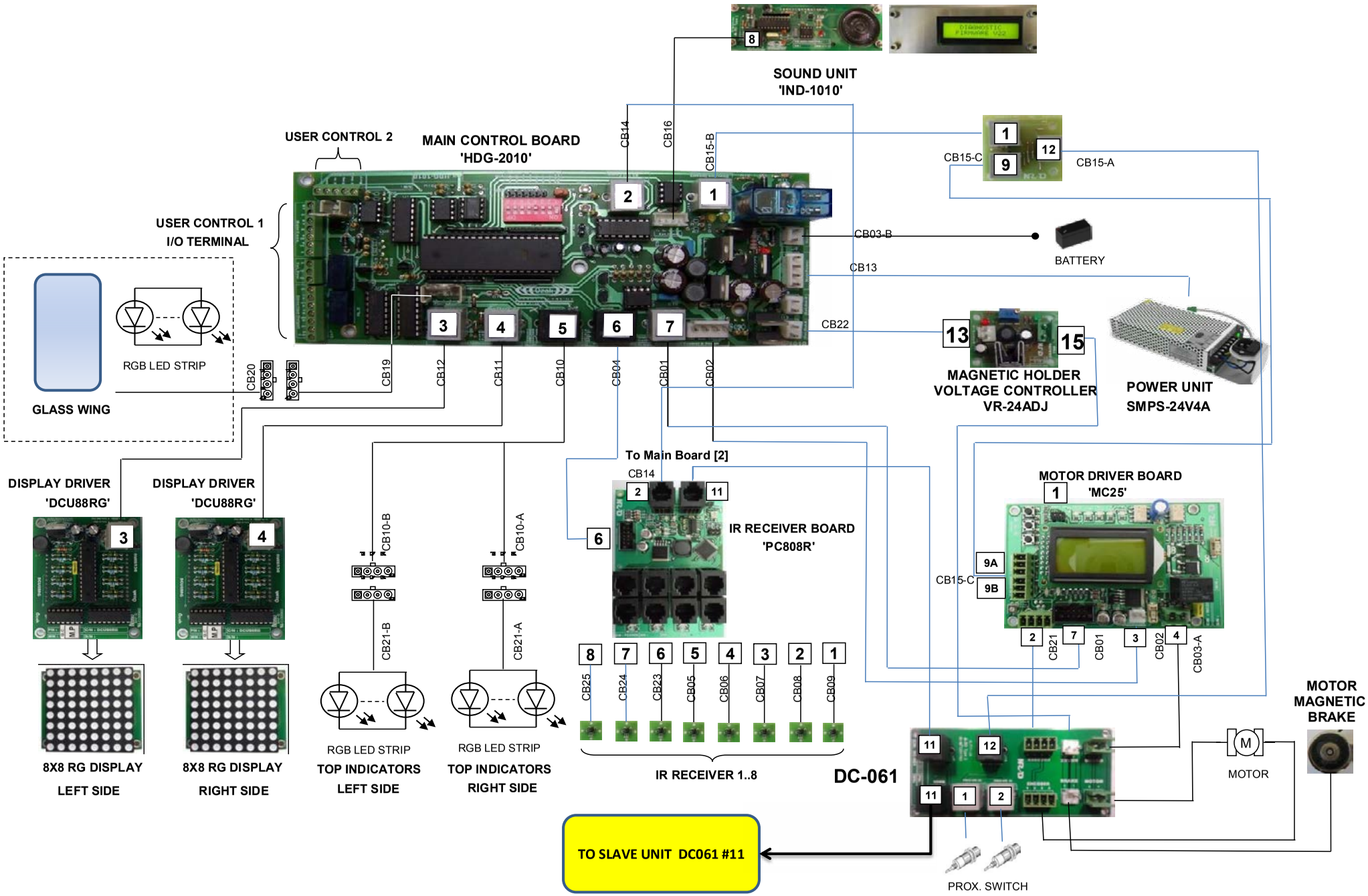
	DESCRIPTION	YES	NO	REMARKS
1	POWER ON: ALL INDICATORS LIT, BUZZERS SOUND, WINGS CYCLE ONCE AND STOP IN STANDBY POSITION			PASSAGE LANE AND PHOTOCELLS MUST BE CLEAR DURING START UP
2	MASTER DIAGNOSTICS SCREEN FREE OF ERROR CODES			
3	CONROL INPUT A AND INPUT B: INDICATORS TURN GREEN IN DIRECTION OF PASSAGE ; RED X ON THE OPPOSITE SIDE			HG AND SG MODELS HAVE RGB ILLUMINATED WINGS AND LED STRIPES UNDER TOP LID
4	WINGS OPEN AND CLOSE SMOOTHLY WITHOUT EXCESSIVE NOISE OR VIBRATION			
5	EMERGENCY INPUTS (CONTINUOUS NC CONTACT - EMG mode active when open): WINGS OPEN, ALL INDICATORS TURN GREEN, PERIODIC ALARM SOUND			**NORMALLY CLOSED (NC) INPUT** -Remove jumper when connected to fire alarm system-Normally open (NO) in units produced before April 2016
6	FREE PASS MODE CHECK: INDICATORS TURN GREEN. WINGS OPEN AUTOMATICALLY WHEN A PERSON ENTERS THE LANE AND CLOSE UPON EXIT			
7	SAFETY PHOTOSENSOR CHECK: WINGS REMAIN OPEN IF A PERSON STANDS IN THE MIDDLE OF THE LANE			
8	POWER LEAKAGE TEST: CHASSIS/METAL PARTS ARE FREE OF AC VOLTAGE LEAKAGE MEASURED IN REFERENCE TO GROUND			
9	FAIL SAFE EXIT CHECK: WINGS OPEN AUTOMATICALLY (HG AND SG) OR OPEN EASILY BY HAND (PG) WHEN POWER IS CUT OFF			

REPORTED BY	APPROVED BY
DATE :	DATE :
SIGNATURE :	SIGNATURE :

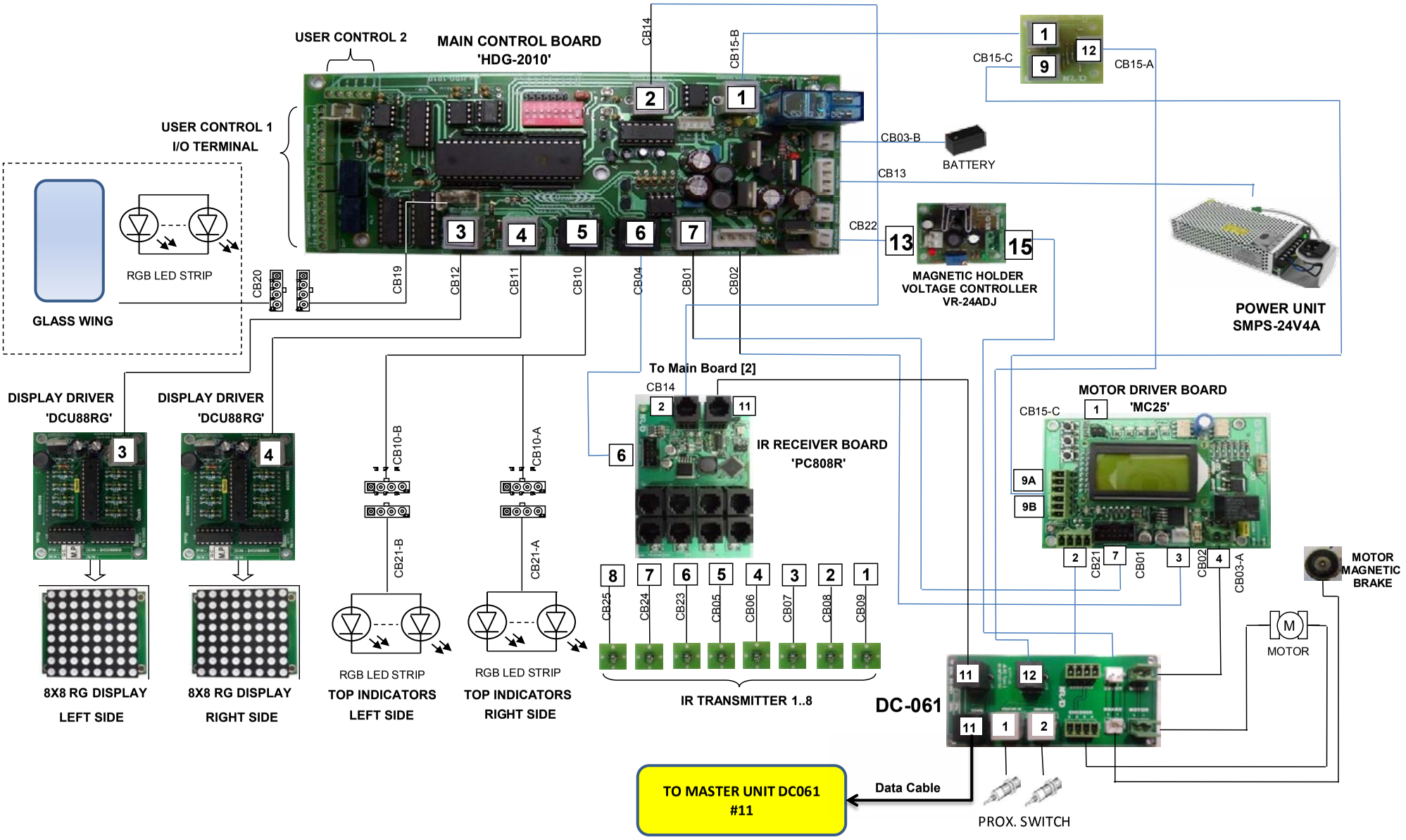
The Sliding Gate Gate is a maintenance free product to a great extent. Following annual checks and maintenance are recommended to ensure smooth operation, long service life and safety.

Maintenance Item	✓ Check For	Action	Remark
External cabinet	○ Loose Panels/rattling noise ○ Loose /broken top cover ○ Glass in contact with cabinet parts	• Re-seat panels • Seurely re-seat /replace top cover • Re-position cover/panel for adequate clearence with moving parts	Clean with soft damp cloth as required
Photosensors	○ Dust and contamination ○ Loose connectors ○ Loose/ misaligned mounts	• Clean with soft brush or pressurized dry air • Tighten connectors • Align, tighten mounts	
Glass wings!	○ Bent frame, glass scraping frame.  ○ Chipped or broken glass with sharp edges	• Align frame to set wing in middle of panel. • Replace glass wing if damaged.	 Safety requirement!
Pinch rollers (wing stabilizers)	○ Deformed rubber roller ○ excessive pressure on one or both rollers	• Replace pinch roller. • Adjust for slight and equal pressure on both sides of glass wing.	Ensure that glass wing frame is not bent/ angled.
Sliding Glass Mechanism	○ Foreign objects,dust or gummed lubricant in bottom rail ○ Loose/worn out drive belt ○ Check sliding bearings for excessive play/ noise	• Remove foreign objects/ Clean • Adjust belt tension/Replace belt if worn or damaged • Clean and apply light kubricant as required	Panels must move smoothly with no jamming or excessive noise.
Electronic boards	○ Loose connector plugs ○ Moisture and excessive dust or foreign objects	• Tighten plugs • Clean	
Wiring Harness	○ Damaged, loose, bare wires	• Repair/replace	 Faulty AC power wiring can cause shock hazard!
Chassis/mechanical assembly	○ Loose, missing nuts/bolts	• Tighten/replace as required.	
Anchoring bolts!	○ Loose floor anchors 	• Secure/tighten	Unit must be securely anchored to floor with no movement!
AC leakage! 	○ AC leakage on chassis, ○ İmproper grounding ○ Damaged, loose, bare wired AC power	Repair/replace as required.	 Safety Requirement!

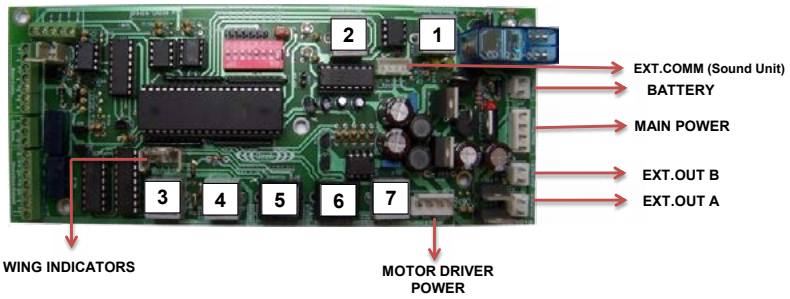
MASTER UNIT PERIPHERAL AND WIRING DIAGRAM



SLAVE UNIT PERIPHERAL AND WIRING DIAGRAM



MAIN BOARD CONNECTOR PIN CONFIGURATIONS



WING INDICATORS

				CABLE COLORS
1234	1	Green		GREEN
	2	Blue		BLACK
	3	Red		RED
	4	+12Vdc		YELLOW

MAIN POWER

1234				CABLE COLORS
	1	+24Vdc		BLUE
	2	+24Vdc		GRAY
	3	Gnd.		BROWN
	4	Gnd.		BLACK

EXT.OUT-A

12				CABLE COLORS
	1	+24V		RED
	2	Out		BLACK

EXT.OUT-B

12				CABLE COLORS
	1	+24V		N.C.
	2	Out		N.C.

MOTOR DRIVER POWER

				CABLE COLORS
1234	1	+24Vdc		BLUE
	2	Batt.Out		N.C.
	3	+12Vdc		N.C.
	4	Gnd.		BLACK

BATTERY

12				CABLE COLORS
	1	Gnd		BLACK
	2	+12Vdc		RED

EXT.COMM (Sound Unit)

				CABLE COLORS
1234	1	Tx		GREEN
	2	Rx		BLACK
	3	Vcc		RED
	4	Gnd		YELLOW

1

DIRECTION SENSORS(PROX.SWITCH)				CABLE COLORS
123456	1	+12Vdc		BLUE
	2	Sw_b		YELLOW
	3	Gnd		GREEN
	4	Sw_a		RED
	5	Gnd		BLACK
	6	Vcc		WHITE

2

RS 232 COMM (MASTER/SLAVE LINK)				CABLE COLORS
1234	1	Rx		BLACK
	2	Gnd		RED
	3	Gnd		GREEN
	4	Tx		YELLOW

3

A-B SIDE ARROW INDICATOR				CABLE COLORS
1234	1	Gnd		BLACK
	2	data		RED
	3	+24Vdc		GREEN
	4	N.c.		YELLOW

4

B-A SIDE ARROW INDICATOR				CABLE COLORS
1234	1	Gnd		BLACK
	2	data		RED
	3	+24Vdc		GREEN
	4	N.c.		YELLOW

5

TOP RGB LED STRIP				CABLE COLORS
12345678	1	A-B Blue		BLACK
	2	A-B Red		RED
	3	A-B Green		GREEN
	4	+12Vdc		YELLOW
	5	B-A Blue		BLACK
	6	B-A Red		RED
	7	B-A Green		GREEN
	8	+12Vdc		YELLOW

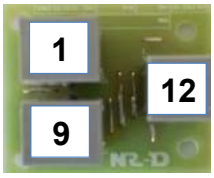
6

PHOTOCELL CONTROL				CABLE COLORS
12345678	1	N.c.		ORANGE
	2	+24vdc		WHITE
	3	N.c.		BLACK
	4	+24v		RED
	5	Handshake Data		GREEN
	6	Gnd.		YELLOW
	7	Tx		BLUE
	8	Rx		BROWN

7

MOTOR DRIVER CONTROL				CABLE COLORS
1234	1	Direction		BLACK
	2	Start/Stop Data		RED
	3	Over Curr.		GREEN
	4	N.C.		YELLOW

FDC 12 PIN CONFIG



1

DIRECTION SENSORS(PROX.SWITCH)			CABLE COLORS
	1	+12Vdc	BLUE
	2	Sw_b	YELLOW
	3	Gnd	GREEN
	4	Sw_a	RED
	5	Gnd	BLACK
	6	Vcc	WHITE

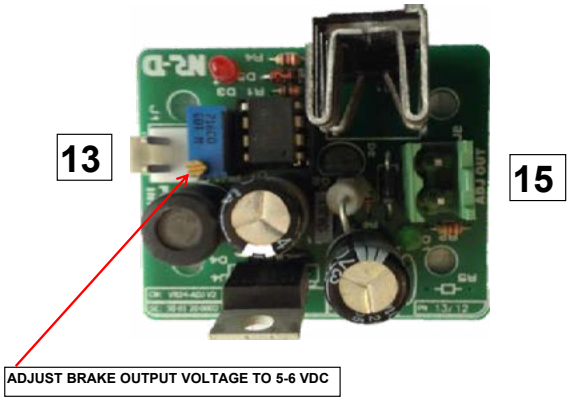
9

DIRECTION SENSORS(PROX.SWITCH)			CABLE COLORS
	1	+12Vdc	BLUE
	2	Sw_b	YELLOW
	3	Gnd	GREEN
	4	Sw_a	RED
	5	Gnd	BLACK
	6	Vcc	WHITE

12

DIRECTION SENSORS(PROX.SWITCH)			CABLE COLORS
	1	+12Vdc	BLUE
	2	Sw_b	YELLOW
	3	Gnd	GREEN
	4	Sw_a	RED
	5	Gnd	BLACK
	6	Vcc	WHITE

BRAKE VOLTAGE CONTROLLER
VR-24ADJ



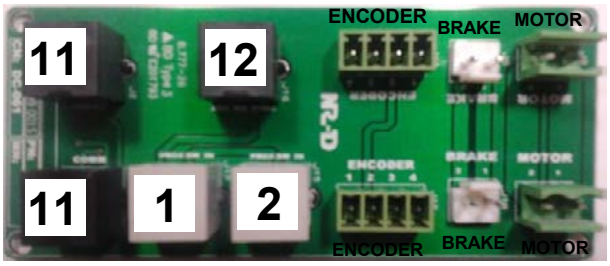
13

1 2			CABLE COLORS
	1	GND	BLACK
	2	+24Vdc	RED

15

1 2			CABLE COLORS
	1	+24Vdc	BLACK
	2	GND	BLACK

DC-061 DISTRIBUTION BOARD PIN CONFIG



11			
M/S COMM.			*CABLE COLORS*
123456	1	Pass Tx	WHITE
	2	Main Tx	BLACK
	3	Gnd	RED
	4	Gnd	GREEN
	5	Main Rx	YELLOW
	6	Pass Rx	BLUE

11			
Master/Slave COMM.			*CABLE COLORS*
123456	1	Pass Tx	WHITE
	2	Main Tx	BLACK
	3	Gnd	RED
	4	Gnd	GREEN
	5	Main Rx	YELLOW
	6	Pass Rx	BLUE

12			
DIRECTION SENSORS(PROX.SWITCH)			*CABLE COLORS*
123456	1	+12Vdc	BLUE
	2	Sw_b	YELLOW
	3	Gnd	GREEN
	4	Sw_a	RED
	5	Gnd	BLACK
	6	Vcc	WHITE

1			
A-B SIDE ARROW INDICATOR			*CABLE COLORS*
1234	1	Gnd	BROWN
	2	data	BLUE
	3	+24Vdc	BLACK
	4	N.c.	

2			
B-A SIDE ARROW INDICATOR			*CABLE COLORS*
1234	1	Gnd	BROWN
	2	data	BLUE
	3	+24Vdc	BLACK
	4	N.c.	

ENCODER			
ENCODER DATA			*CABLE COLORS*
1 2 3 4	1	Gnd	**BLUE** OR **BLACK**
	2	Encoder A	YELLOW
	3	+5Vdc	BROWN
	4	Encoder B	WHITE

ENCODER			
ENCODER DATA			*CABLE COLORS*
1 2 3 4	1	Gnd	**BLUE** OR **BLACK**
	2	Encoder A	YELLOW
	3	+5Vdc	BROWN
	4	Encoder B	WHITE

BRAKE			
1 2			*CABLE COLORS*
	1	GND	BLACK
	2	+24Vdc	RED

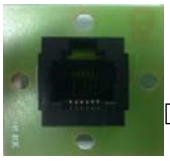
BRAKE			
1 2			*CABLE COLORS*
	1	GND	BLACK
	2	+24Vdc	RED

MOTOR			
1 2			*CABLE COLORS*
	1	+24Vdc	BLACK
	2	+24Vdc	RED

MOTOR			
1 2			*CABLE COLORS*
	1	+24Vdc	BLACK
	2	+24Vdc	RED

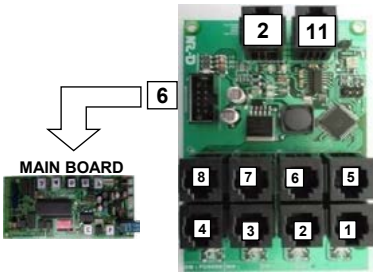
IR RECEIVER (MASTER UNIT)

Receive Modul



REAR VIEW

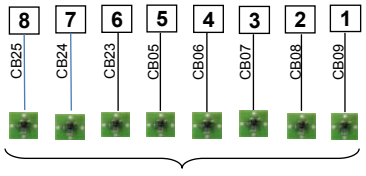
ALL RECEIVER MODULES			
	RECEIVER UNITS		CABLE COLORS
1 2 3 4	1	+5Vdc	YELLOW
	2	Receive Data	GREEN
	3	Gnd	RED
	4	Ind_led	BLACK



IR RECEIVER BOARD

'PC808'

R 1..8			
	RECEIVER UNITS		CABLE COLORS
1 2 3 4	1	+5Vdc	YELLOW
	2	Receive Data	GREEN
	3	Gnd	RED
	4	Ind_led	BLACK

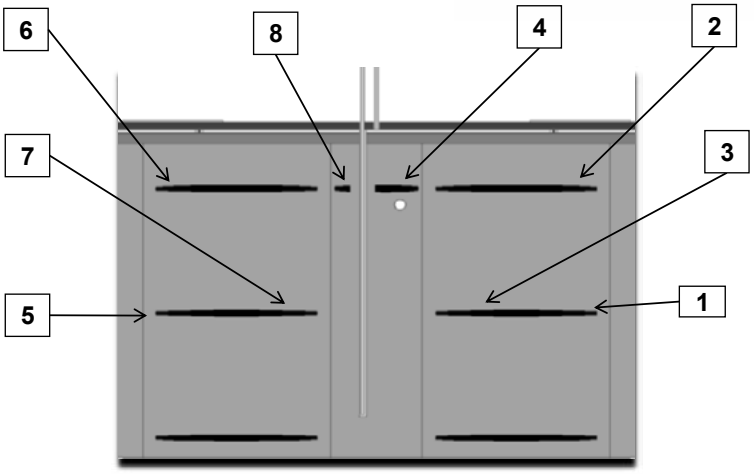


IR RECEIVER 1..8

11			
	M/S COMM.		CABLE COLORS
1 2 3 4 5 6	1	Pass Tx	WHITE
	2	Main Tx	BLACK
	3	Gnd	RED
	4	Gnd	GREEN
	5	Main Rx	YELLOW
	6	Pass Rx	BLUE

6			
	PHOTOCELL CONTROL		CABLE COLORS
1 2 / 9 10	1	+5Vdc	N.C
	2	+5Vdc	N.C.
	3	+24Vdc	ORANGE
	4	+24Vdc	WHITE
	5	I/O1	BLACK
	6	Gnd	RED
	7	I/O2	GREEN
	8	Gnd	YELLOW
	9	Rx	BLUE
	10	Tx	BROWN

2			
	MAIN COMM.		CABLE COLORS
1 2 3 4	1	Main Rx	YELLOW
	2	Gnd	GREEN
	3	Gnd	RED
	4	Main Tx	BLACK

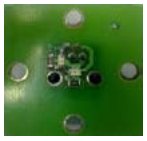


MASTER UNIT'S SENSOR POSITIONS

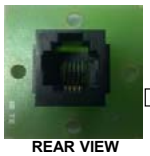
FRONT VIEW

IR RECEIVER CHECK: All red receiver status leds are steady when IR beam path is clear, they blink when IR beam is interrupted

IR TRANSMITTER (SLAVE UNIT)



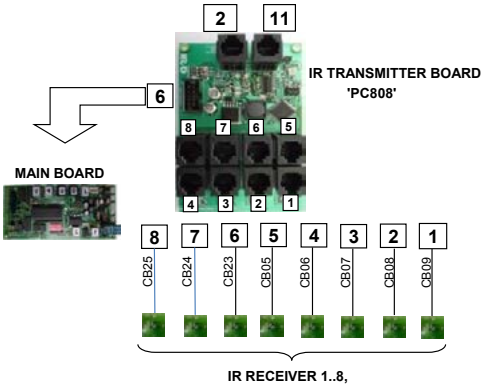
Transmitter Modul



REAR VIEW

ALL RECEIVER MODULES

RECEIVER UNITS		CABLE COLORS
1	+5Vdc	YELLOW
2	Receive Data	GREEN
3	Gnd	RED
4	Ind_led	BLACK



R 1..8

RECEIVER UNITS		CABLE COLORS
1	+5Vdc	YELLOW
2	Receive Data	GREEN
3	Gnd	RED
4	Ind_led	BLACK

11

M/S COMM.		CABLE COLORS
1	Pass Tx	BLUE
2	Main Tx	YELLOW
3	Gnd	GREEN
4	Gnd	RED
5	Main Rx	BLACK
6	Pass Rx	WHITE

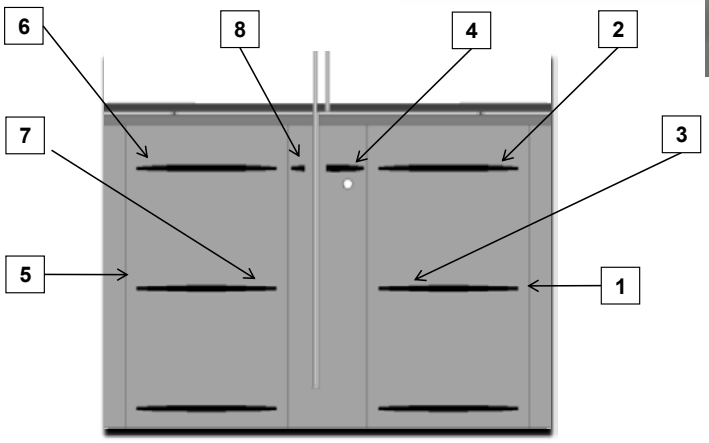
6

MAIN CONTROL			CABLE COLORS
1	+5Vdc		N.C.
2	+5Vdc		N.C.
3	+24Vdc		BLACK
4	+24Vdc		N.C.
5	I/O1		N.C.
6	Gnd		N.C.
7	I/O2		GREEN
8	Gnd		BLUE
9	Rx		N.C.
10	Tx		N.C.

Bottom View

2

MAIN COMM.		CABLE COLORS
1	Main Rx	YELLOW
2	Gnd	GREEN
3	Gnd	RED
4	Main Tx	BLACK



SLAVE UNIT'S SENSOR POSITIONS
FRONT VIEW

SOUND /DIAGNOSTIC UNIT

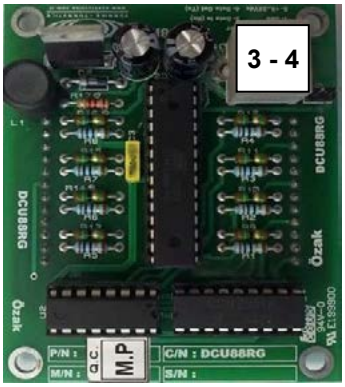
FRONT VIEW

REAR VIEW

8		
SOUND/DIAGNOSTIC UNIT		CABLE COLORS
1234	1	+5Vdc
	2	Gnd
	3	Rx
	4	Tx

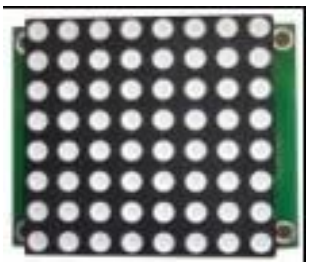
Error Code Number	Description
E01	MASTER MOTOR UNPLUGGED OR CURRENT (TORQUE) CTRL ADJUSTMENT
E02	MASTER MOTOR OVER CURRENT OR CURRENT (TORQUE) CTRL ADJUSTMENT
E03	MASTER CLOSED SWITCH NOT FOUND-Check magnetic switch for closed position
E04	MASTER OPENED SWITCH NOT FOUND-Check magnetic switch for open position
E05	MASTER B-A TOP PHOTOCELL MALFUNCTION
E06	MASTER B-A BOTTOM PHOTOCELL MALFUNCTION
E07	MASTER A-B TOP PHOTOCELL MALFUNCTION
E08	MASTER A-B BOTTOM PHOTOCELL MALFUNCTION
E09	MASTER ATS (Middle) PHOTOCELL MALFUNCTION
E10	COMMUNICATION ERROR WITH PHOTOCELL BOARD
E11	SLAVE MOTOR UNPLUGGED OR CURRENT (TORQUE) CTRL ADJ
E12	SLAVE MOTOR OVER CURRENT OR CURRENT (TORQUE) CTRL ADJ
E13	SLAVE CLOSED SWITCH NOT FOUND- Check magnetic switch for closed position
E14	SLAVE OPENED SWITCH NOT FOUND Check magnetic switch for open position
E15	COMMUNICATION ERROR WITH SLAVE BOARD

DISPLAY DRIVER UNIT



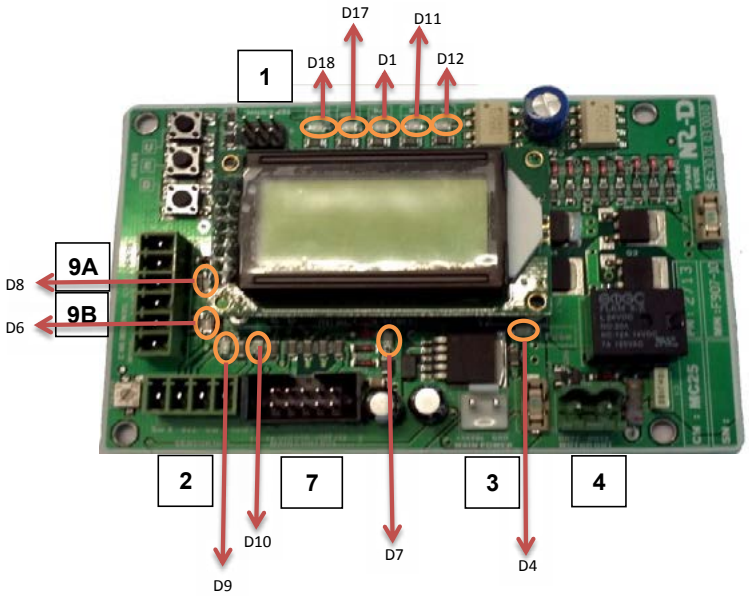
REAR VIEW

3 - 4			
	DISPLAY UNIT		CABLE COLORS
1234	1	Gnd	BLACK
	2	Data (Tx)	RED
	3	+24Vdc	GREEN
	4	Data (Rx)	YELLOW



FRONT VIEW

MOTOR DRIVER BOARD PIN CONFIG



STATUS LED DESCRIPTION	
D1-RED	MOTOR OVER TORQ
D4-YELLOW	FAULT FUSE
D6-GREEN	PROX SENSOR LED B
D7-RED	POWER LED
D8-GREEN	PROX SENSOR LED A
D9-GREEN	ENCODER LED A
D10-GREEN	ENCODER LED B
D11-GREEN	DIRECTION B LED
D12-GREEN	DIRECTION A LED
D17-YELLOW	RUN LED
D18-RED	OVER CURRENT LED

1

EXTERNAL I/O (PRG)			CABLE COLORS
6 5 4 3 2 1	1	Ext I/O 1	N.C
	2	+5Vdc	N.C.
	3	Ext I/O 3	N.C.
	4	Ext I/O 4	N.C.
	5	Reset	N.C.
	6	Gnd	N.C.

2

ENCODER DATA			CABLE COLORS
1 2 3 4	1	Gnd	BLUE
	2	Encoder A	YELLOW
	3	+5Vdc	BROWN
	4	Encoder B	WHITE

3

1 2	Power IN		CABLE COLORS
	1	+24Vdc	RED
	2	Gnd	BLACK

4

MOTOR OUT			CABLE COLORS
1 2			
	1	Motor Out (Brown)	BROWN
	2	Motor Out (Blue)	BLUE

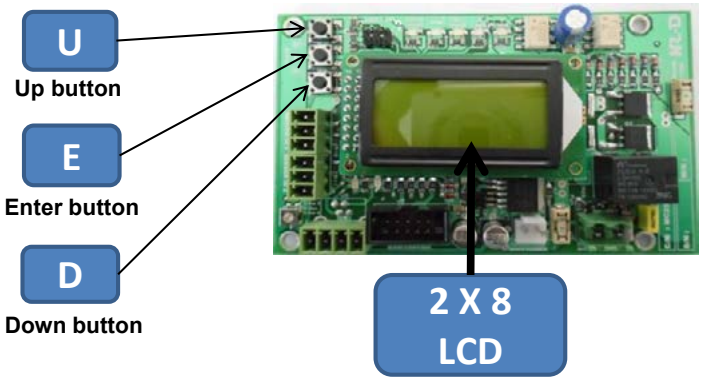
7

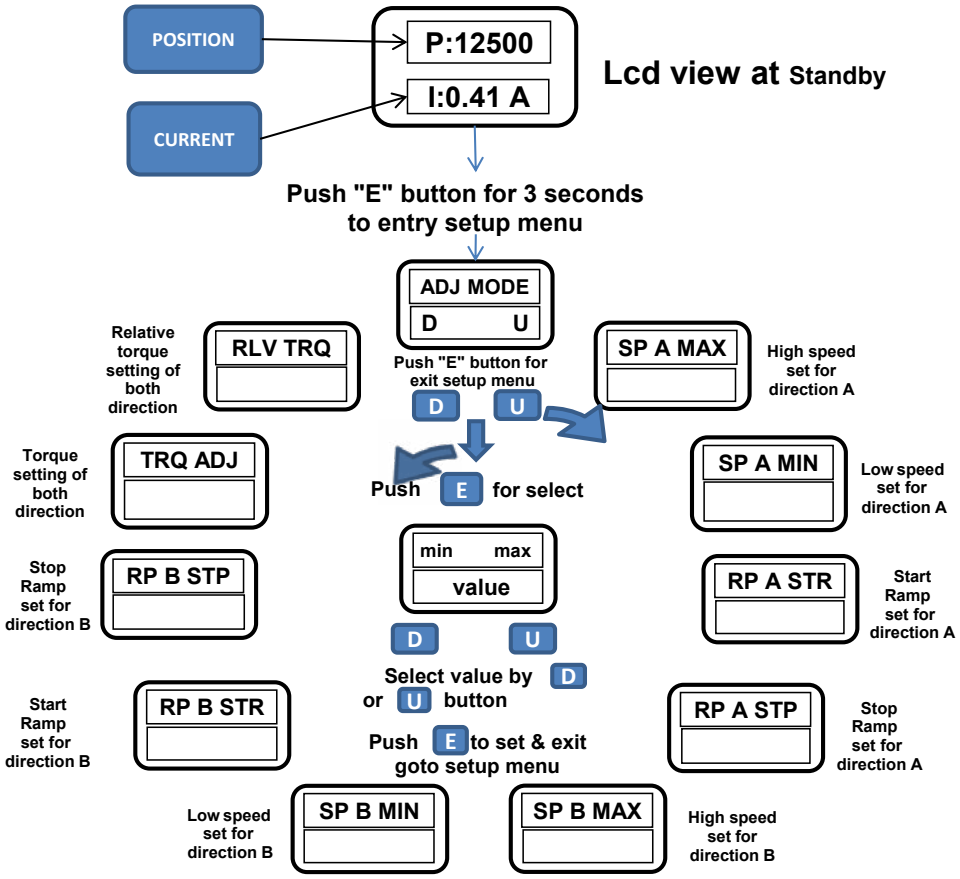
MAIN CONTROL			CABLE COLORS
1 2 / 9 10	1	+5Vdc	N.C
	2	+5Vdc	N.C.
	3	+24Vdc	N.C.
	4	+24Vdc	N.C.
	5	I/O1	BLACK
	6	Gnd	N.C
	7	I/O2	RED
	8	Gnd	N.C
	9	Rx	GREEN
	10	Tx	YELLOW

9

SENSOR DATA			CABLE COLORS
1 2 3 4 5 6	1	+24Vdc	N.C.
	2	Proximity Sensor A	RED
	3	Gnd	N.C.
	4	+24Vdc	N.C.
	5	Proximity Sensor B	YELLOW
	6	Gnd	N.C.

MOTOR DRIVER CONTROL MENU



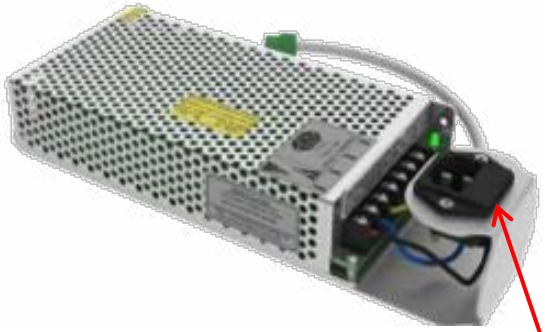


Checking Motor Encoder: P (Position) values increase as wing moves out. P=0 at full open position. P=MAX value when closed.
Motor and brake may be unplugged to move wing for testing purposes.

CAUTION! Mechanism should be checked to be free and smooth before changing settings on the motor driver board.

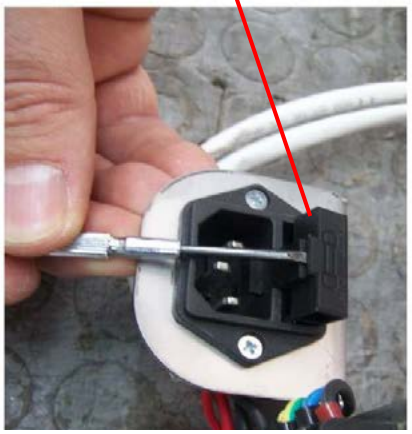
SMPS UNIT

24VDC-6.5 AMP

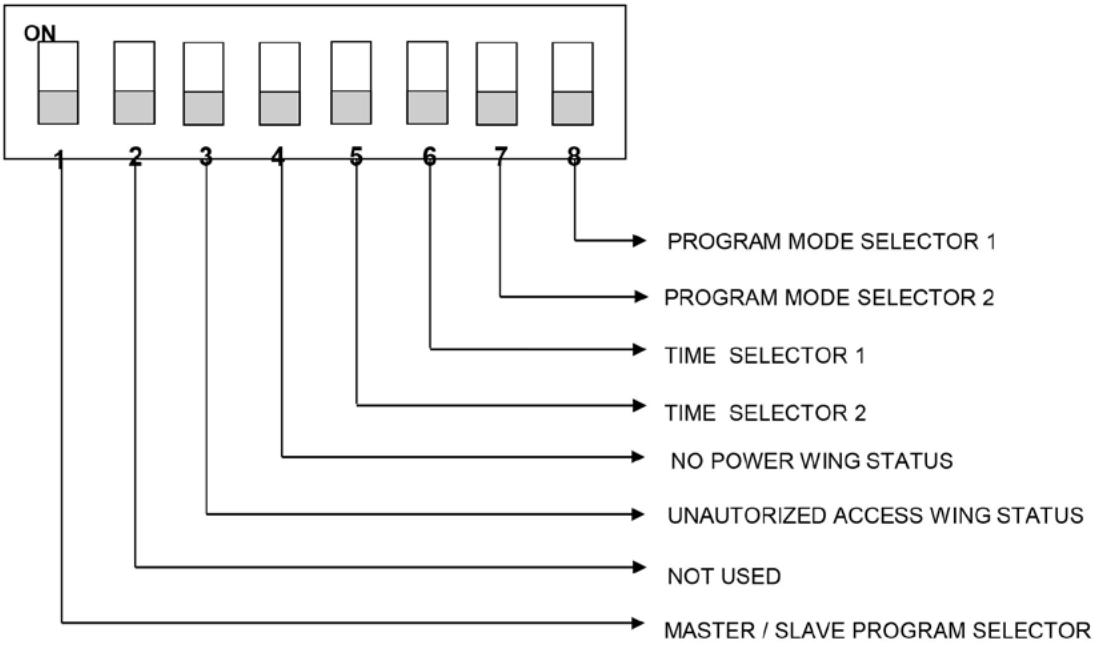


MAIN POWER				
SMPS POWER CABLE				CABLE COLORS
1 2 3 4	1	+24Vdc		BLUE
	2	+24Vdc		GRAY
	3	Gnd.		BROWN
	4	Gnd.		BLACK

Fuse Replacement



DIP SWITCH CONFIGURATIONS



MASTER / SLAVE PROGRAM SELECTION

SW 1	EXPLANATION
ON	In Slave Unit Must Be Always ON
OFF	In Master Unit Must Be Always OFF

UNAUTHORIZED ACCESS WING STATUS

SW 3	EXPLANATION
OFF	Unauthorized Access , Wing Stays Open with alarm
ON	Unauthorized Access , Wing Closes! (Risk of damage or injury)

NO POWER WING STATUS

SW 4	EXPLANATION
OFF	Wing Stays Open When Power Is Off (Free Pass)
ON	Wing Stays Closed When Power Is Off

TIME SELECTION

SW 5	SW 6	EXPLANATION
OFF	OFF	Entry Time Out 12 Seconds
ON	OFF	Entry Time Out 8 Seconds
OFF	ON	Entry Time Out 4 Seconds
ON	ON	Entry Time Out 2 Seconds

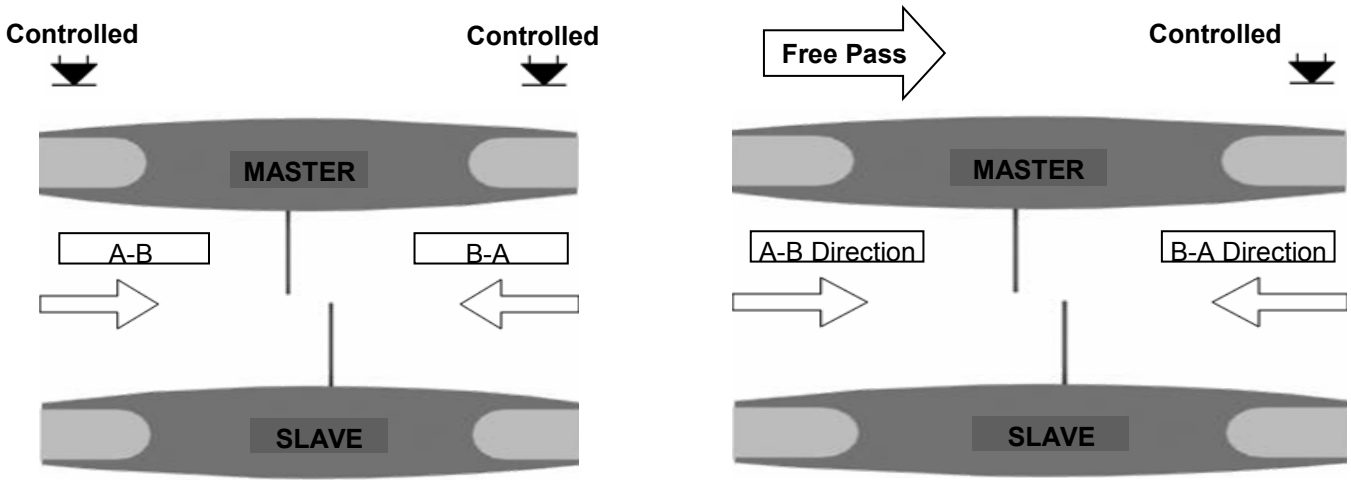
PROGRAM MODE SELECTION

SW 7	SW 8	EXPLANATION	
OFF	OFF	Passage With Standart Button Control	* For Only Master Unit * For Details Refer To OPERATION FUNCTIONS
ON	OFF	NOT ASSIGNED	
OFF	ON	A-B Direction :Free Passage With Photocell , B-A Direction :Controlled Access	
ON	ON	B-A Direction :Free Passage With Photocell , A-B Direction :Controlled Access	

DIP SWITCH CONFIGURATIONS

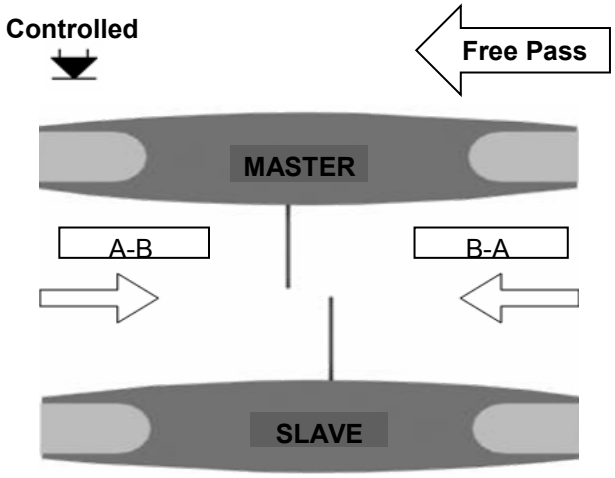
PROGRAM MODE SELECTION (MASTER SIDE)			
	SW 7	SW 8	EXPLANATION
MODE 1	**OFF**	**OFF**	Passage With Standart Button Control
NO MODE	**ON**	**OFF**	no mode
MODE 2	**OFF**	**ON**	A-B Direction :Free Passage With Photocell , B-A Direction : Controlled Access
MODE 3	**ON**	**ON**	B-A Direction :Free Passage With Photocell , A-B Direction : Controlled Access

SLAVE SIDE SW 8	
ON	Fast free passage mode (unrestricted)
OFF	Free passage one person at a time



Mode 1

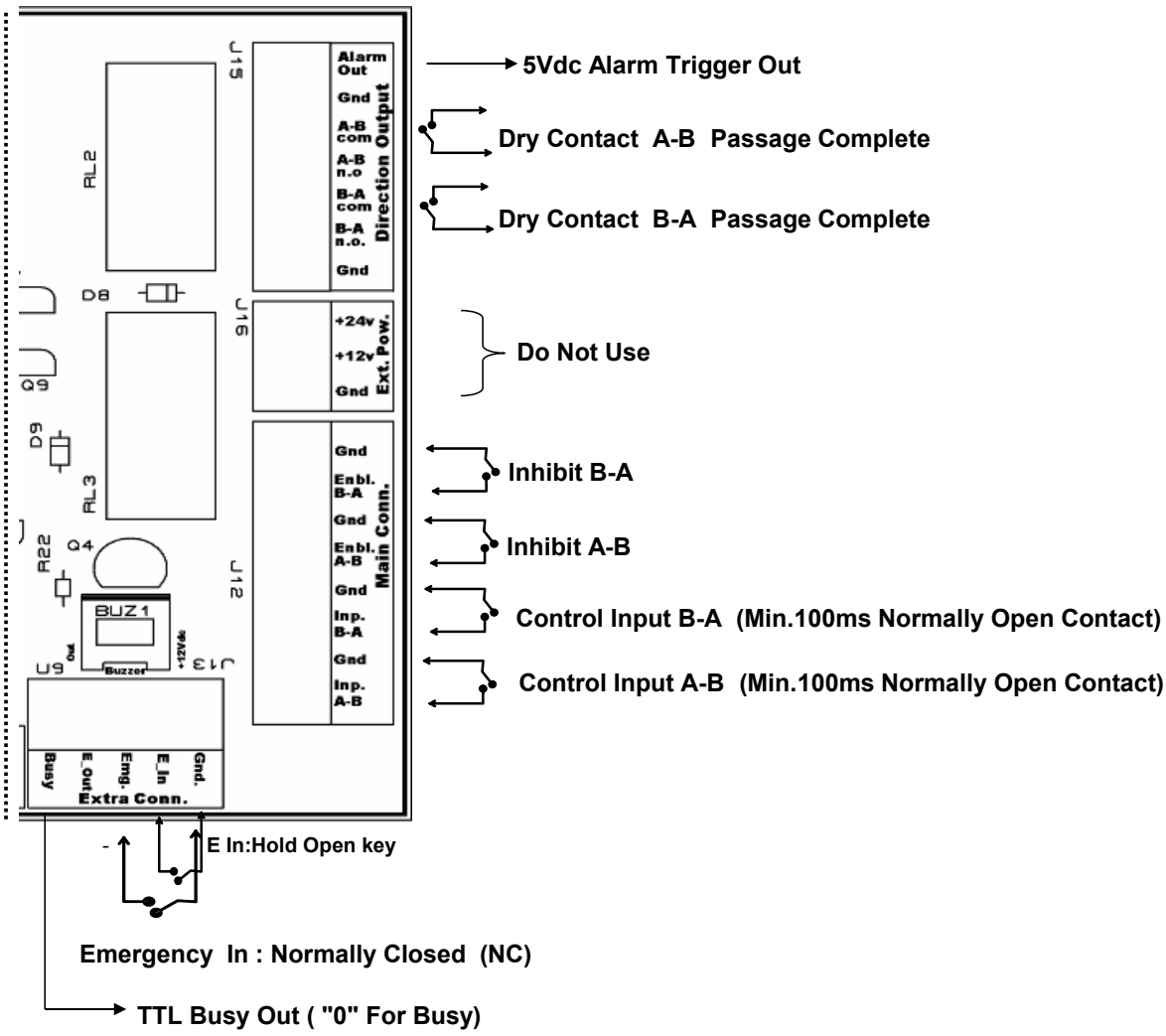
Mode 2



Mode 3

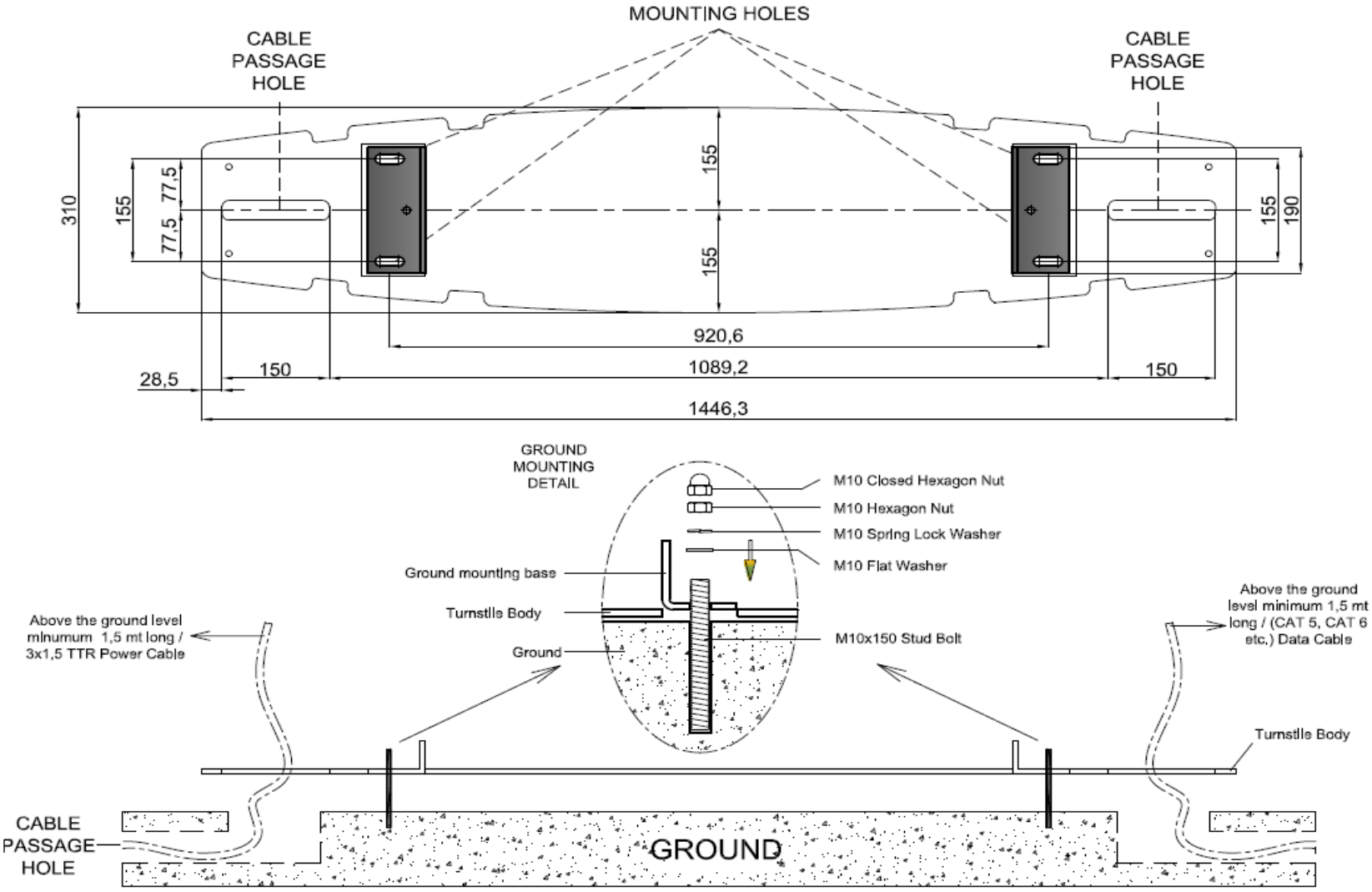
USER CONTROL TERMINALS

User Control Terminals



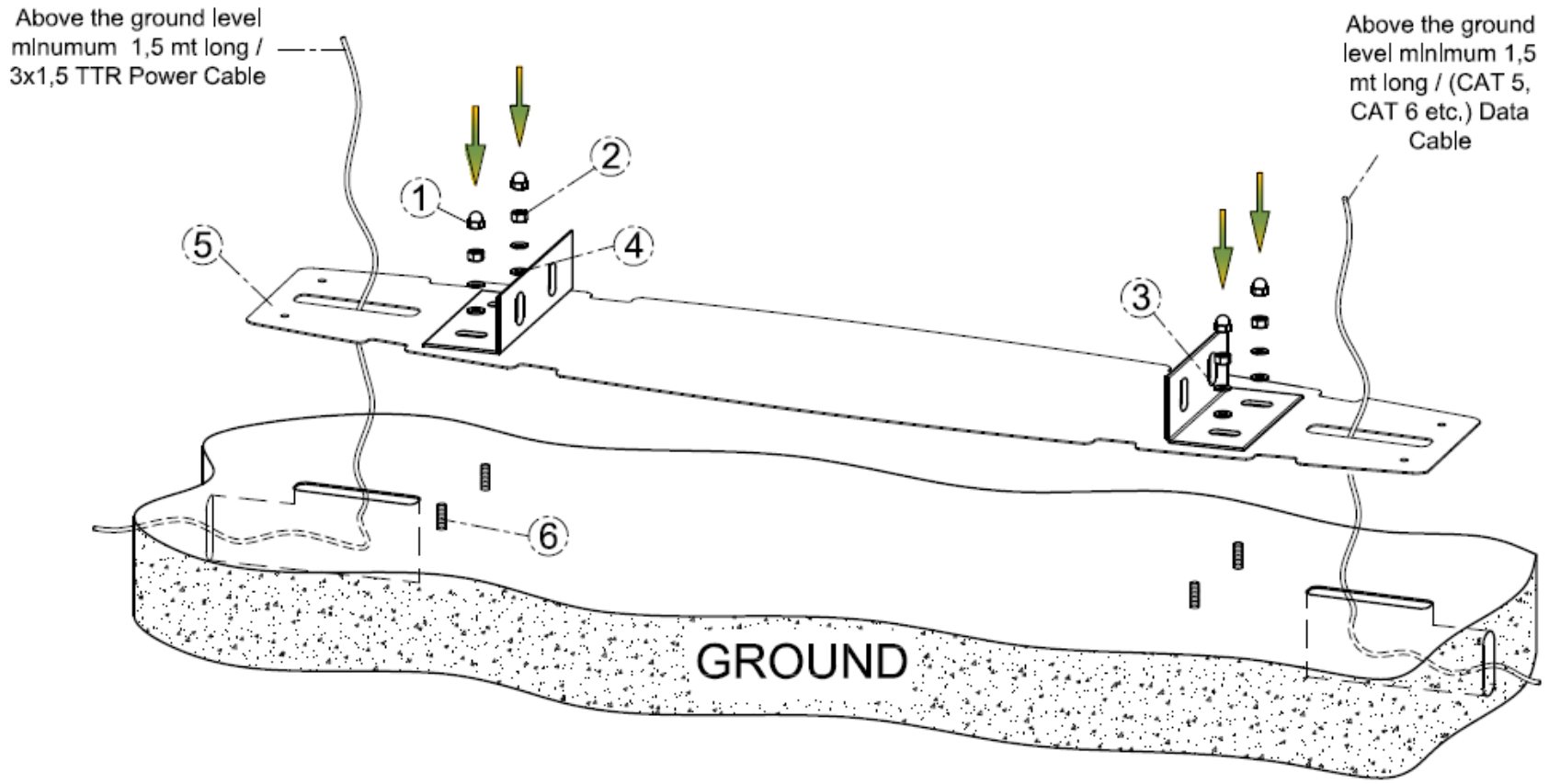
SURFACE MOUNTING INFORMATION

All dimensions are "mm"

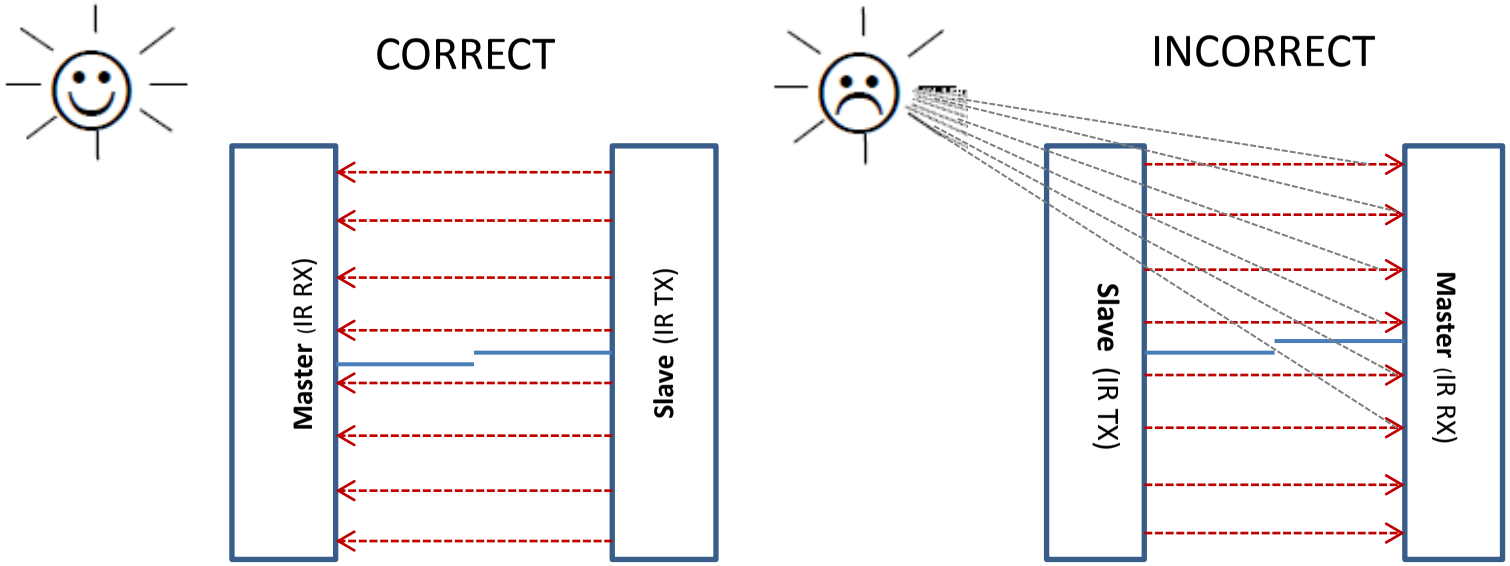


CAUTION! Drawing is for general information. Actual dimensions may vary according to model. Use template provided with unit for drilling.

ANCHORING



Part No	Part Name	Pieces
1	M10 Closed Hexagon Nut	4
2	M10 Hexagon Nut	4
3	M10 Spring Lock Washer	4
4	M10 Flat Washer	4
5	Sliding Gate Turnstile Body	1
6	M10x150 Stud Bolt	4



Avoid direct sunlight or other IR light sources that could interfere with the IR receivers inside Master unit!

CE UYGUNLUK DEKLARASYONU / CE DECLARATION OF CONFORMITY

ÜRETİCİ FİRMA/ MANUFACTURER COMPANY : **ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC. A.Ş.**

ADRES/ADDRESS : **ÇUHANE CAD. NO: 130 41080 KÖSEKÖY/KOCAELİ/TÜRKİYE**

Aşağıda adı geçen ürünlerin üretimi, kontrolü ve son değerlendirmeleri ÖZAK tarafından gerçekleştirilmektedir.
Manufacturing, control and final assessment of the below mentioned products are done by ÖZAK.

ÜRÜN LİSTESİ/LIST OF PRODUCTS

Açıklamalar/Explanations: TURNİKELER (BEL TİPİ TURNİKELER / BOY TİPİ TURNİKELER / HIZLI GEÇİŞ TURNİKELERİ / ENGELLİ GEÇİŞ TURNİKELERİ / YÜKSEK GÜVENLİK TURNİKE VE KAPILARI / YARIM BOY TURNİKELER / GEÇİŞ KAPILARI / SPC ÖZEL DİZAYN TURNİKELER / SERBEST GEÇİŞ TURNİKELER)

TURNSTILES (WAIST HEIGHT TURNSTILES / FULL HEIGHT TURNSTILES / SPEED GATES TURNSTILES / REVOLVING WING GATES TURNSTILES / SECURITY DOORS AND TURNSTILES / HALF HEIGHT TURNSTILES / PEDESTRIAN GATES / SPECIAL DESIGN TURNSTILES / FREE PASSAGE (RETAIL LINE) TURNSTILES)

İlgili Direktifler/Relevant Directives:

(2006/42/EC) Makine Emniyet Yönetmeliği / *Machine Safety Directive,*
(2014/30/EU) Elektromanyetik Uyumluluk Yönetmeliği / Electromagnetic Compatibility Directive

HARMONİZE STANDARTLAR'a Göre Uygulanmış Yönetmelikler/ Regulations applied according to HARMONIZED STANDARDS :EN ISO 12100:2010, EN 60204-1:2018, EN ISO 13857:2008, EN ISO 14120:2015, EN 349:1993/A1:2008, EN 61000-6-1:2019, EN 61000-6-3:2007/A1:2011/AC:2012

ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC. A.Ş. yukarıda listesi verilen ürünlerin 2006/42/EC Makine Yönetmeliği ile 2014/30/EU Elektromanyetik Uyumluluk Yönetmeliği ve ilgili harmonize standartların gerekliliklerini sağladığını ve uygunluğunu beyan eder.

ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC. A.Ş. hereby declare that the above listed products satisfy and comply with the requirements of Harmonised Standards for 2006/42/EC Machinery Directive and 2014/30/EU Electromagnetic Compatibility Directive.

İsim/Name : **ÖZER ÖZALP** Ünvan/*Title* : **GENEL MÜDÜR/*GENERAL MANAGER***

Yer ve Tarih/Place and Date : **KOCAELİ / 10.02.2020** İmza/*Signature*

Warranty Terms and Conditions

1. Warranty period starts after the date of purchase of the goods and continues for twentyfour (24) months against manufacturing defects. Warranty coverage is in form of supplying replacement parts free of charge.
2. Availability of the spare parts by the manufacturing company is guaranteed for ten (10) years following the manufacturing date of the product.
3. Any tampering, failures resulting from unauthorized modification or repair attempt and shall void the warranty.
4. Expiration time for the warranty of the parts replaced within the warranty period is the same as that of the turnstile.
5. When the turnstile fails within the warranty period, duration of repair is added to the warranty period.
6. Manufacturing company supplies required replacement parts to repair defects and failures during the warranty period in accordance with the terms stated herein. The parts are supplied to the authorized dealer/service center which has sold the product to end user.
7. It is the user's responsibility to check that technical services are carried out in accordance with the terms stated herein.
8. The user must retain the warranty certificates and present to the authorized service personnel when required.
9. Users are expected to sign the failure report/ service forms that are filled after service/maintenance work performed under the warranty coverage.
10. In case any dispute or problem related to the warranty is not resolved by the manufacturer, users can apply to the Republic of Turkey Ministry of Industry and Trade, Directorate General of Protecting Consumer Rights and Competition.
11. All replacement parts sold by Ozak are warranted for a period of one year following the date of purchase, excluding failures resulting from physical damage, incorrect installation, misuse, tampering and similar reasons beyond manufacturers control.
12. The specified warranty periods of all our products and MCBF's are valid in case of evidence that the periodic maintenances have been done as recommended by the manufacturer (minimum once every six months for motor driven products, minimum once a year for manual driven products and also considering the given maintenance processes and to be done by authorised technician trained by the manufacturer).

Cases Excluded from the Coverage of Warranty

1. Any tampering or damage on warranty certificate or serial numbers and labels that prevent the identification of the product shall void the warranty.
2. Any modifications, addition of accessories and parts, or replacement of parts without approval of manufacturer fall within the scope of tampering with the system, therefore terminates liability of the manufacturing company.
3. Any damage and failure resulting from any of the conditions listed below are not covered by warranty:
   a) Misuse, abuse, deliberate act or negligence,
   b) Glass breakage,
   c) Failures caused by short circuit, power surge, incorrect wiring and voltage applications, improper grounding, change of phase group, induction current effects,
   d) Maintenance, repair, additions or replacement of parts and accessories or moving the turnstiles from original place by unauthorised personnel or corporation, and lack of annual maintenance of the products.
   e) Shipping and handling damages,
   f) Failures caused by exposure to unsuitable environmental conditions for the stated technical specifications of the product (temperature range, IP grade etc) such as excessively dusty, humid, dirty and other environments.
   g) Failures caused by leakage of water into the internal parts of the turnstile due to application of pressurized water on the product,
   h) Damage and failure caused by lightning, flood, fire, storm, hurricanes, earthquake and similar natural disasters,
   i) Accidents that occur at the location where the products are installed,
   j) Damages that occur as a result of circumstances beyond reasonable control of the manufacturer or the user (armed conflicts, civil unrest, blockade, revolution, insurrection, mobilization, looting etc.)
   k) THE DAMAGE OR FAILURES OCCURRING DUE TO FEEDING OF EXTERNAL DEVICES (CARD READERS, TERMINALS, INDICATIONS, COMMUNICATION DEVICES, ETC.) FROM THE CONTROL BOARD OR POWER SUPPLY UNIT INSIDE THE TURNSTILE.

Warranty Certificate

BRAND NAME : .....

MODEL : .....

DATE OF DELIVERY : .....

WARRANTY PERIOD : .....

SERIAL NUMBER : .....

TSEK

EAC

TS EN ISO 9001 : 2015

MANUFACTURER : ÖZAK GEÇİŞ TEKNOLOJİLERİ SANAYİ TİC A.Ş.
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PHONE&FAX : +90 262 373 48 48 Pbx.
E-MAIL : ozak@ozak-t.com
WEB : www.ozak-t.com

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Y.T.05.08.2020