HG 01

INSTALLATION AND MAINTENANCE HANDBOOK

WARRANTY CERTIFICATE

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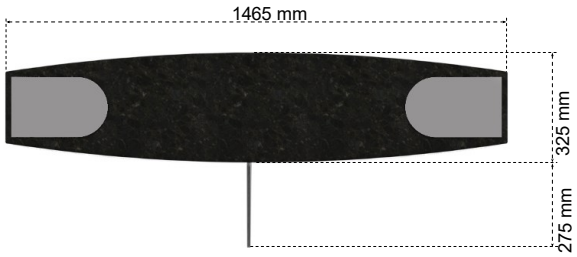
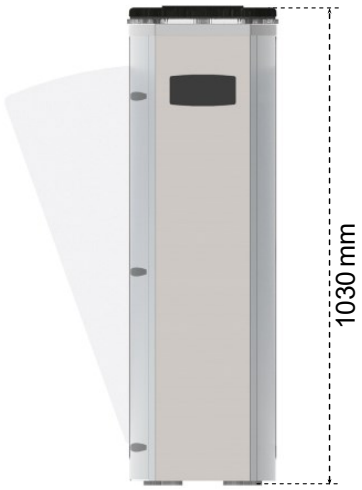
INDEX





Power Supply: 110/220 V – 60/50 Hz. AC (% ± 10), 24 V DC. At standby ~10W. Walkway ~39W.

Wing Features: RGB LED illuminated, 10 mm. thick tempered glass (impac resistant).

Dimensions: 1465 x 1030 x 325 + wing length (275) mm

Weight: ~90 kgs (Single unit)

Body Features : 304-Grade satin finished stainless steel panels. 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.

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 or wood).

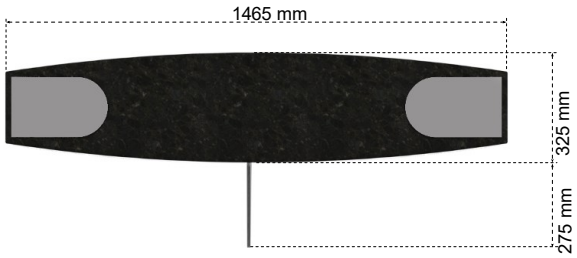
Operating Temperature, Humidity, IP Rating : (-20°C) – (+68°C) (Ops. -50°C with heater unit) , RH 95% (±2%) non-condensing , IP 44 Indoor Model

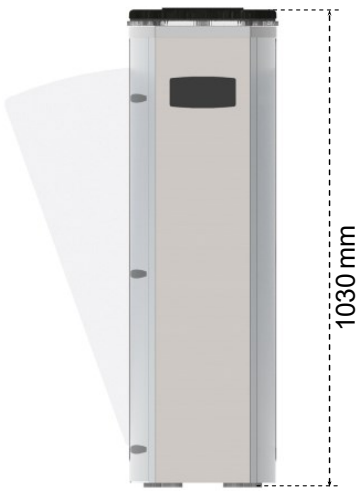
Minimum Passage Performance : 15 million passages.

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.

Flow Rate: ≈ 30 passage/ min (Recommended reference figure) Utilisation of different access control units can change the flow rate.

SPEED GATE SERIES **HG 01 C (Center)** **TECHNICAL SPECIFICATIONS**





Power Supply: 110/220 V – 60/50 Hz. AC (% ± 10), 24 V DC. At standby ~20W. Walkway ~78W.

Wing Features: RGB LED illuminated, 10 mm. thick tempered glass (impact resistant).

Dimensions: 1465 x 1030 x 325 + wing length (275 x 2) mm

Weight: ~95 kgs

Body Features : 304-Grade satin finished stainless steel panels. 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.

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 or wood)

Operating Temperature, Humidity, IP Rating : (-20°C) – (+68°C) (Ops. -50°C with heater unit) , RH 95% (±2%) 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.

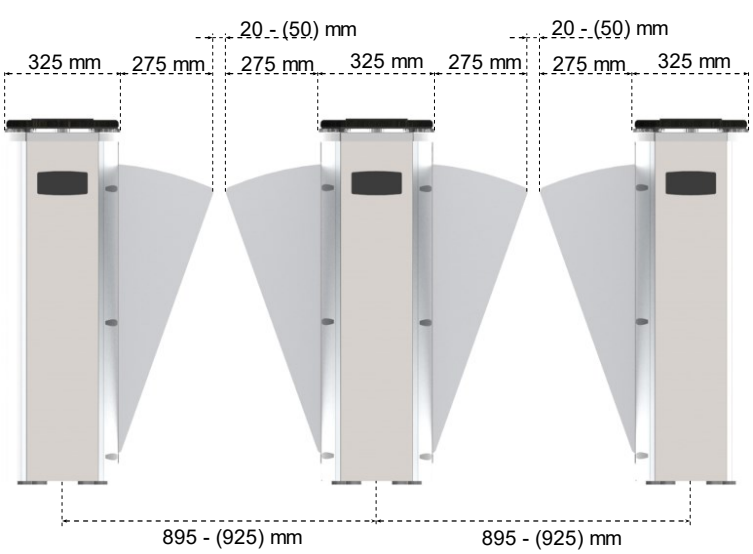
Flow Rate: ≈ 30 passage/ min (Recommended reference figure) Utilisation of different access control units can change the flow rate.

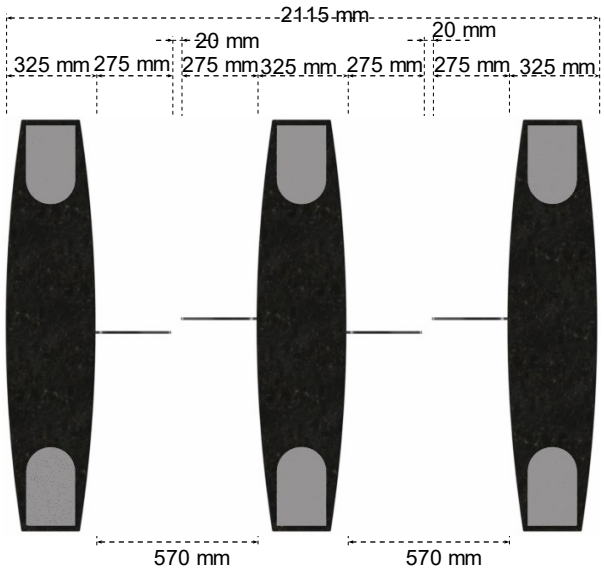
**Design and specifications are subject to change without notice.*

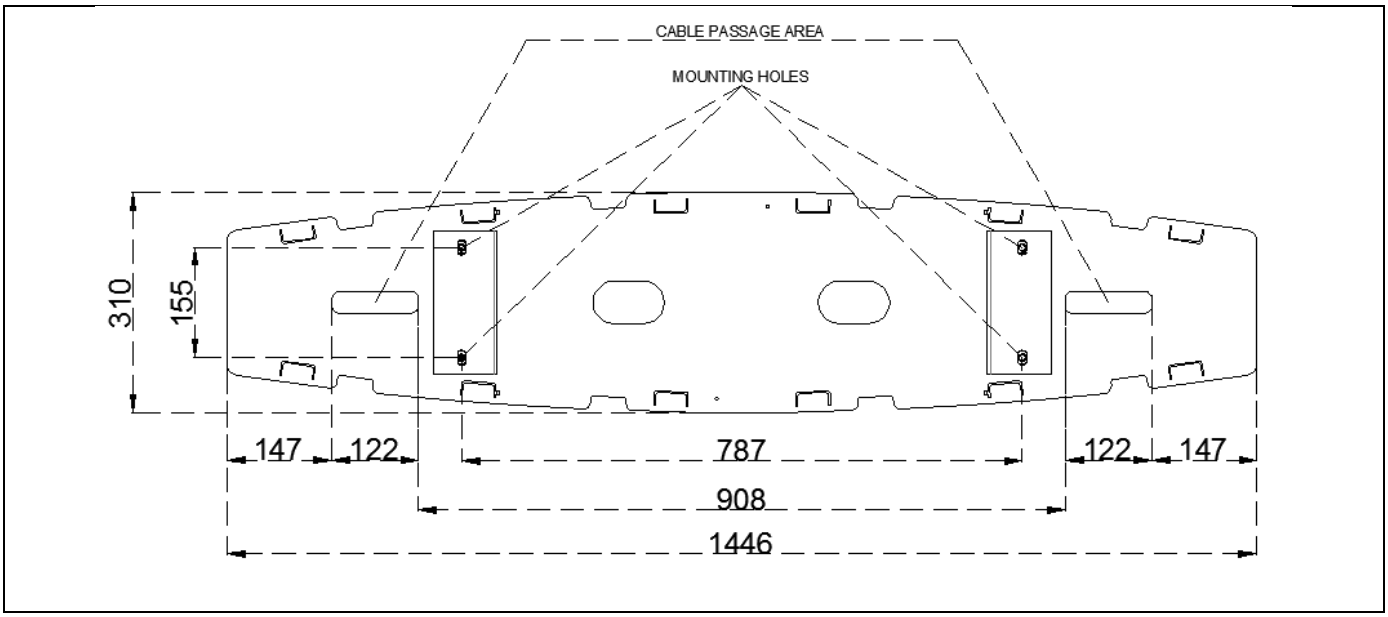
***Because the top lid is made of natural granite, it may have variations in color tones and patterns.*

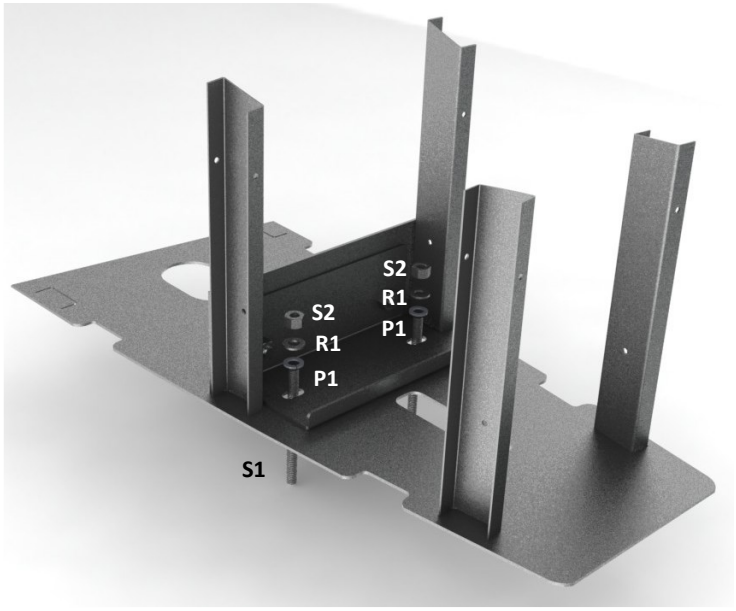
Mounting Instructions

Mounting Surface must be perfectly flat.



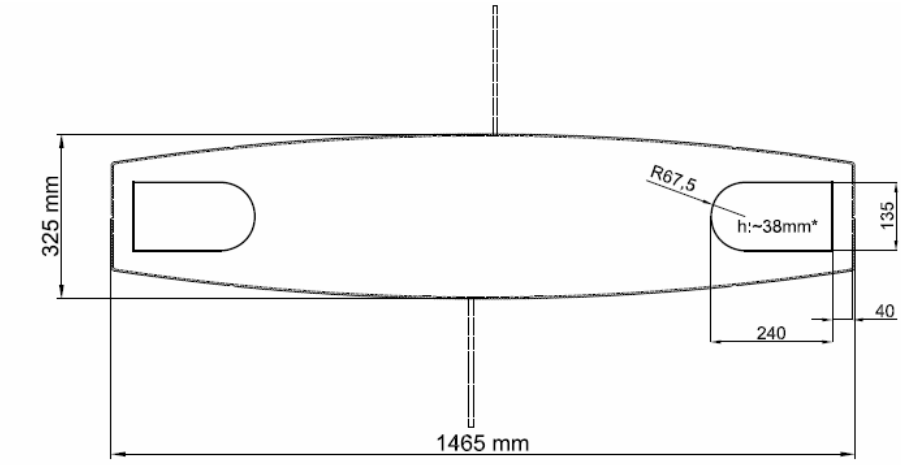


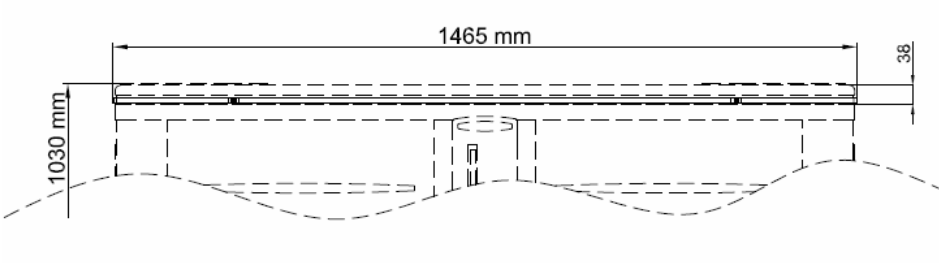




S1	P1	R1	S2
Ø10x150 Stick	M10 Flat Washer	M10 Spring Lock Washer	M10 Nut
8	8	8	8

Dimensions of Card Reader Mounting Gap for HG 01 Gates



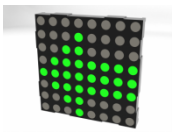


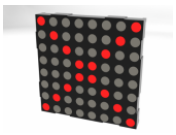
HG 01-S **HG 01- D**

1. The mechanism is powered by a DC motor.
2. Motor movement is controlled by a microprocessor utilizing PWM system.
3. The wings closed in normal position open fast when authorization is received for passage.
4. When the wings are closing, the movement is monitored by sensors in order to prevent someone getting stuck between the wings. In addition to this safety feature, the wings move backwards if someone is detected between the wings. In that case, alarm is activated.
5. The system can be configured to alert when unauthorized persons get closer to the wings.
6. The passages can be counted one by one.
7. The direction and after passage feedback information can be gathered.
8. The wings position can be set depending on the requirements during power failures.
9. The emergency battery within the system is a built-in feature.
10. The system opens the wings to allow authorized passage. When a reverse movement is detected, the system alerts, and closes the wings.

Indicators

The indicator lights are built-in standards placed on both sides of the front panels and embedded on top granite under an acrylic glass (Green arrow or the red X sign.) Optionally, a decorative steel passage status indicator can be added to the system on top cover...

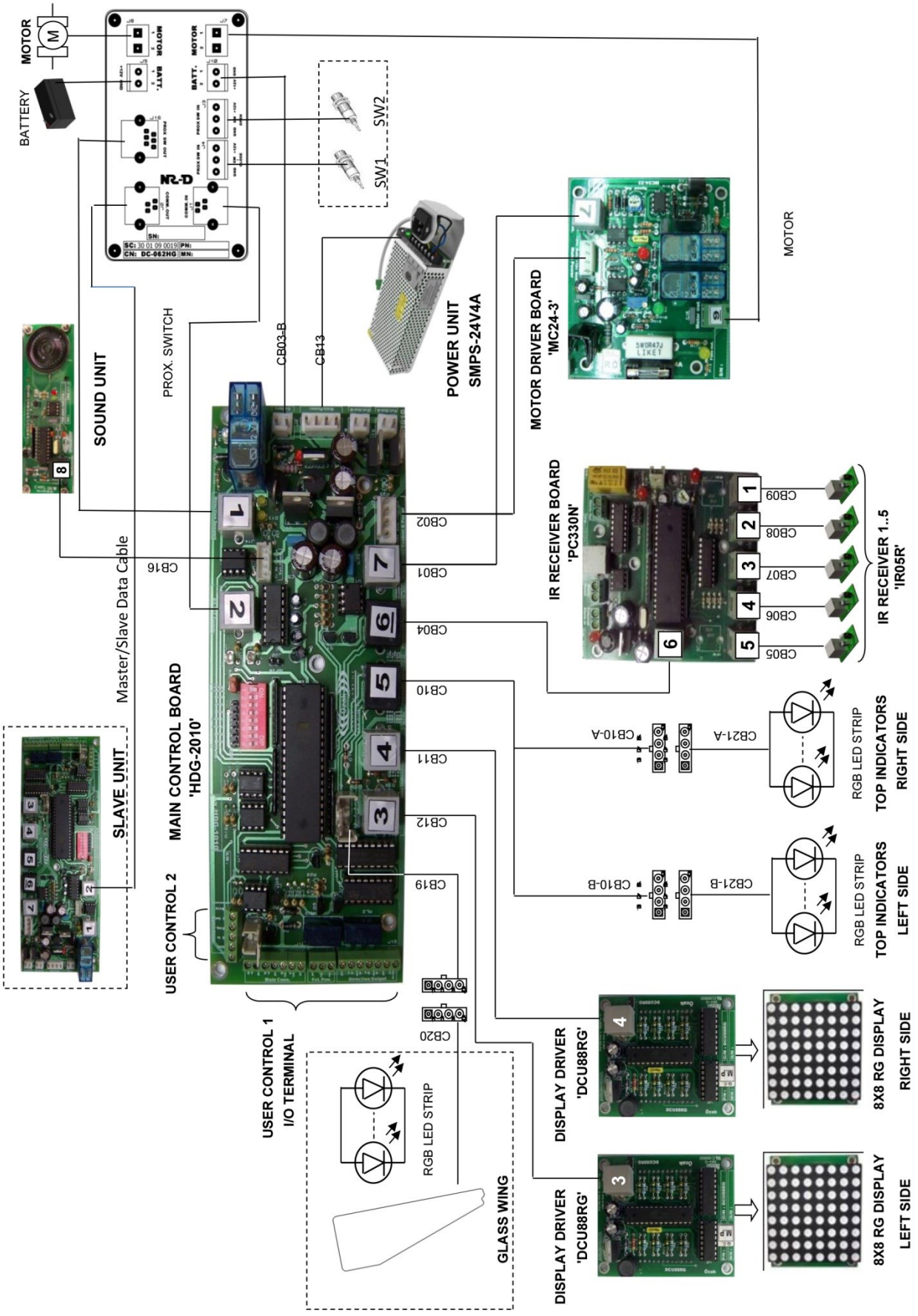


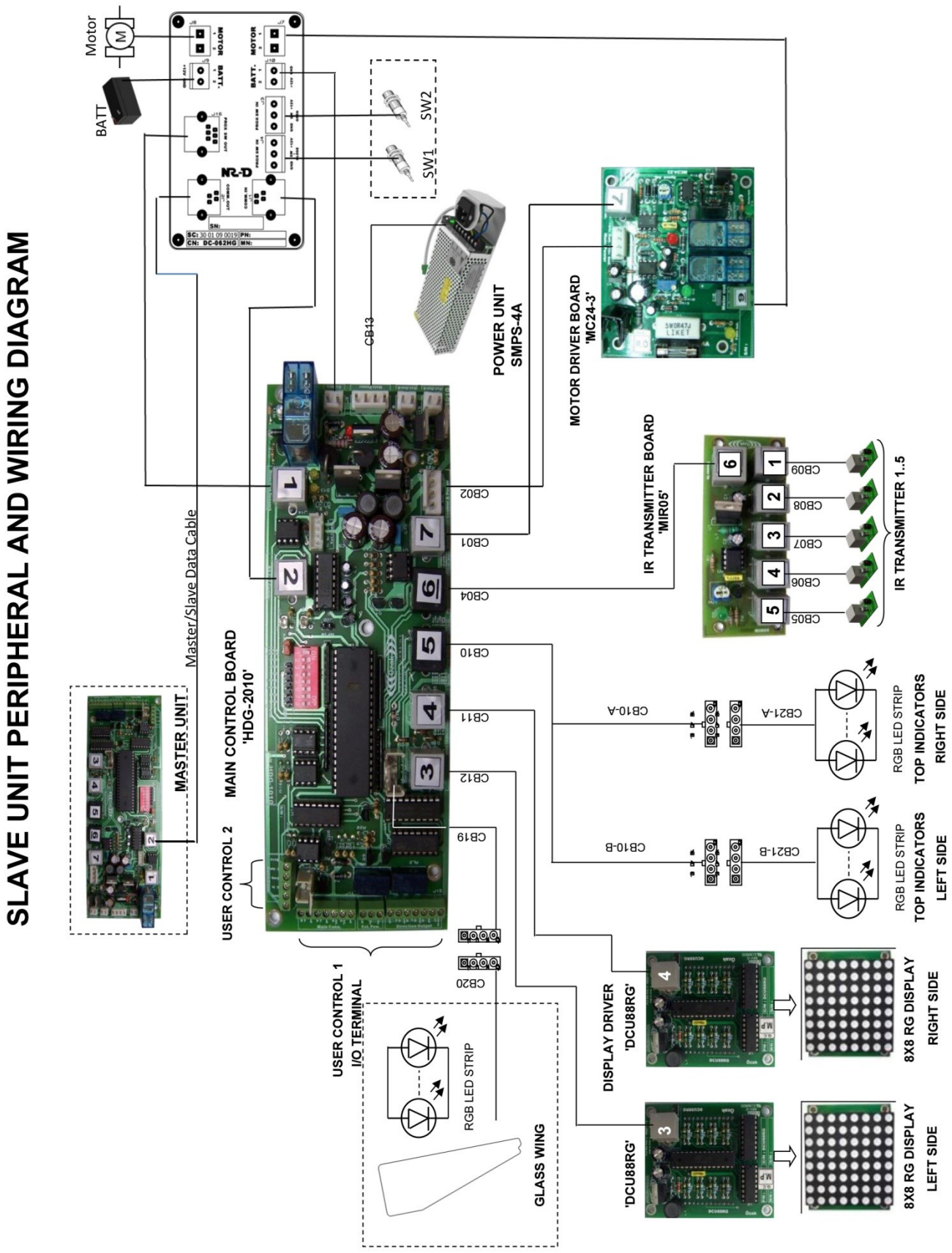


Emergency Mode
In case of emergency, the system opens the wings and indicators turn green. This feature can also be activated during power failures. Wing position can be changed by an optional remote control.

External Connections
Stainless steel and acrylic plates are placed on the top cover for both directions. The space under those plates provides enough room for the cables and additional system units. Acrylic plates are recommended for the integration of RFID units.

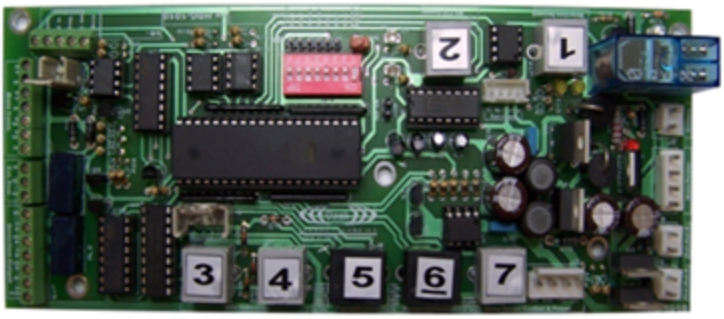
MASTER UNIT PERIPHERAL AND WIRING DIAGRAM




SLAVE UNIT PERIPHERAL AND WIRING DIAGRAM
Motor
BATT
SW1
SW2
POWER UNIT
SMPS-4A
MOTOR DRIVER BOARD
'MC24-3'
IR TRANSMITTER BOARD
'MIR05'
IR TRANSMITTER 1..5
CB09
CB08
CB07
CB06
CB05
CB13
CB02
CB01
CB04
CB10
CB11
CB12
CB19
CB20
MAIN CONTROL BOARD
'HDG-2010'
Master/Slave Data Cable
MASTER UNIT
USER CONTROL 2
USER CONTROL 1
I/O TERMINAL
CB10-A
CB21-A
CB10-B
CB21-B
RGB LED STRIP
TOP INDICATORS
RIGHT SIDE
TOP INDICATORS
LEFT SIDE
DISPLAY DRIVER
'DCU88RG'
'DCU88RG'
8X8 RG DISPLAY
RIGHT SIDE
8X8 RG DISPLAY
LEFT SIDE
RGB LED STRIP
GLASS WING

HG 01 MAIN BOARD CONNECTOR PIN CONFIGURATIONS

HGV 2010 MAIN BOARD



1
DIRECTION SENSORS(PROX.SWITCH)

1	+12Vdc
2	Sw_b
3	Gnd
4	Sw_a
5	Gnd
6	Vcc

2
RS 232 COMM (MASTER/SLAVE LINK)

1	Rx
2	Gnd
3	Gnd
4	Tx

3
A-B SIDE ARROW INDICATOR

1	Gnd
2	data
3	+24Vdc
4	N.c.

4
B-A SIDE ARROW INDICATOR

1	Gnd
2	data
3	+24Vdc
4	N.c.

5
TOP RGB LED STRIP

1	A-B Blue
2	A-B Red
3	A-B Green
4	+12Vdc
5	B-A Blue
6	B-A Red
7	B-A Green
8	+12Vdc

6
PHOTOCELL CONTROL

1	N.c.
2	+24vdc
3	N.c.
4	+24v
5	Handshake Data
6	Gnd.
7	Tx
8	Rx

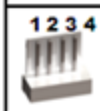
7
MOTOR DRIVER CONTROL

1	Direction
2	Start/Stop Data
3	Over Curr.
4	Mt. Brake

WING INDICATORS

1	Green
2	Blue
3	Red
4	+12Vdc

MAIN POWER



1	+24Vdc
2	+24Vdc
3	Gnd.
4	Gnd.

EXT.OUT-A

1	+24V
2	Out

EXT.OUT-B

1	+24V
2	Out

MOTOR DRIVER POWER

1	+24Vdc
2	Batt.Out
3	+12Vdc
4	Gnd.

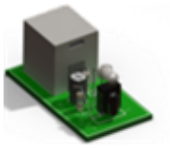
BATTERY

1	Gnd
2	+12Vdc

EXT.COMM (Sound Unit)

1	Tx
2	Rx
3	Vcc
4	Gnd

IR RECEIVER (MASTER UNIT)



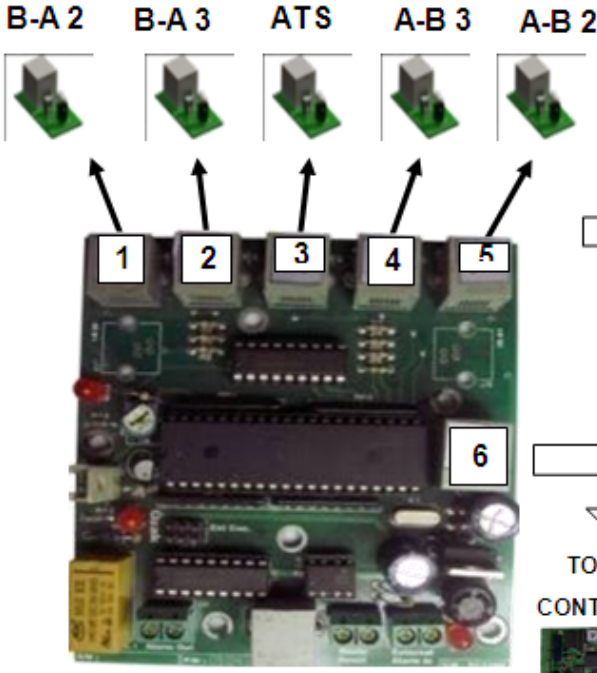
Receive Modul

REAR VIEW

R 1..5

RECEIVER UNIT

1	Indicator Led
2	Gnd
3	Receive Data
4	+5Vdc



PC330N IR RECEIVER MAIN BOARD

TO MASTER CONTROL BOARD

1..5

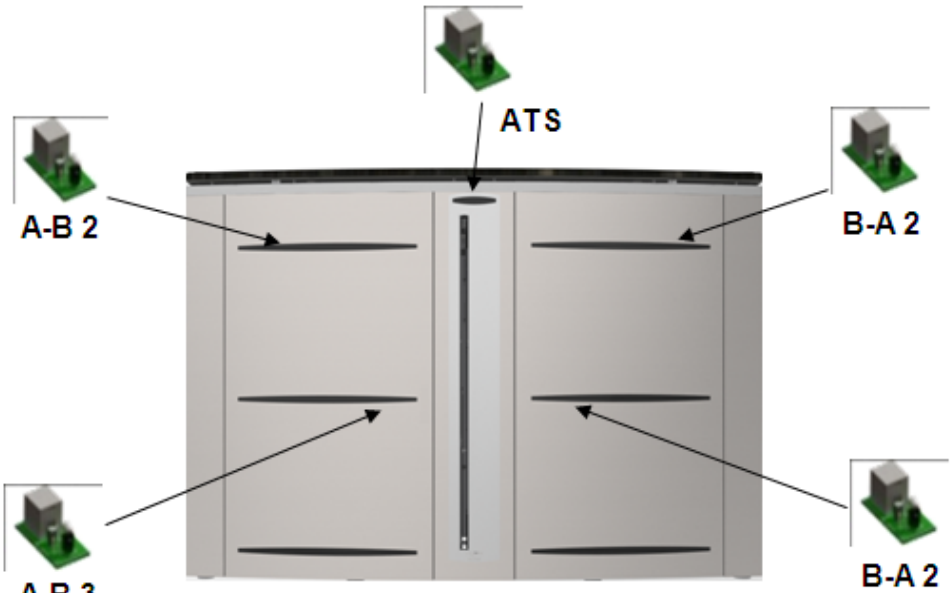
IR RECEIVER UNIT

1	+5Vdc
2	Receive Data In
3	Gnd
4	Indicator Led Out (-)

6

PHOTOCELL CONTROL

1	N.c.
2	+24Vdc
3	N.c.
4	+24Vdc
5	Handshake Data
6	Gnd.
7	Tx
8	Rx

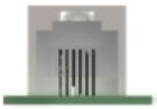


MASTER UNIT SENSOR POSITIONS

FRONT VIEW

IR TRANSMITTER (SLAVE UNIT)

Transmitter Module

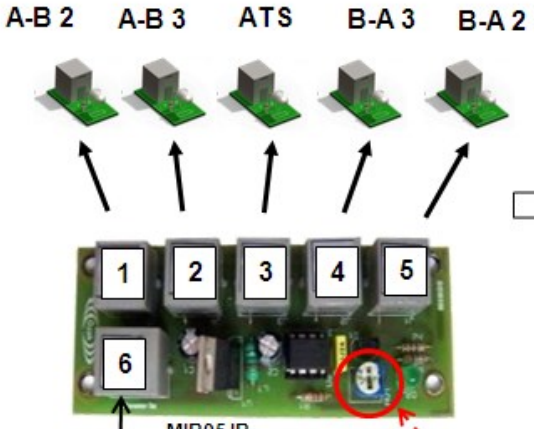


REAR VIEW

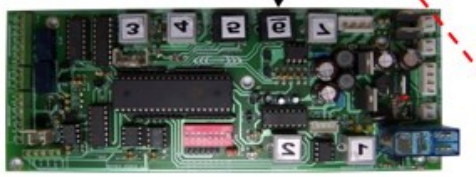
R 1..5

TRANSMITTER MODULE

1	+5Vdc
2	TX Data
3	Gnd
4	Indicator Led



MIR05 IR
TRANSMITTER BOARD



CONTROL BOARD

1..5

IR TRANSMITTER BOARD

1	+5Vdc
2	TX Data
3	Gnd
4	Indicator Led Out (-)

6

PHOTOCELL CONTROL

1	N.c.
2	+24Vdc
3	N.c.
4	+24Vdc
5	N.c.
6	Gnd.
7	N.c.
8	N.c.

P1

IR INTENSITY ADJ.

+	left
-	right

Turn P1 CCW to increase intensity

IR Transmitter Intensity Adjustment

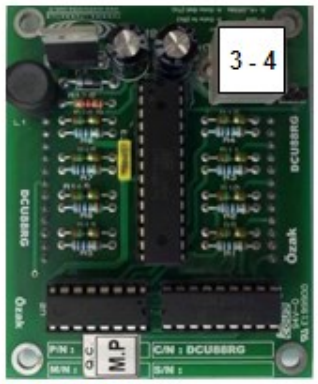
Adjust P1 for steady red LED indication on PC330 receiver board (Master side). Turn P1 additional 20 degrees CCW (left) from the point of steady red LED indication on PC330

SLAVE UNIT SENSOR POSITIONS
FRONT VIEW

SOUND /DIAGNOSTIC UNIT

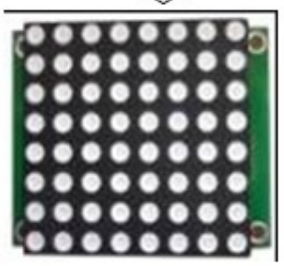
8	
SOUND/DIAGNOSTIC UNIT	
1	+5Vdc
2	Gnd
3	Rx
4	Tx

DISPLAY DRIVER UNIT



REAR VIEW

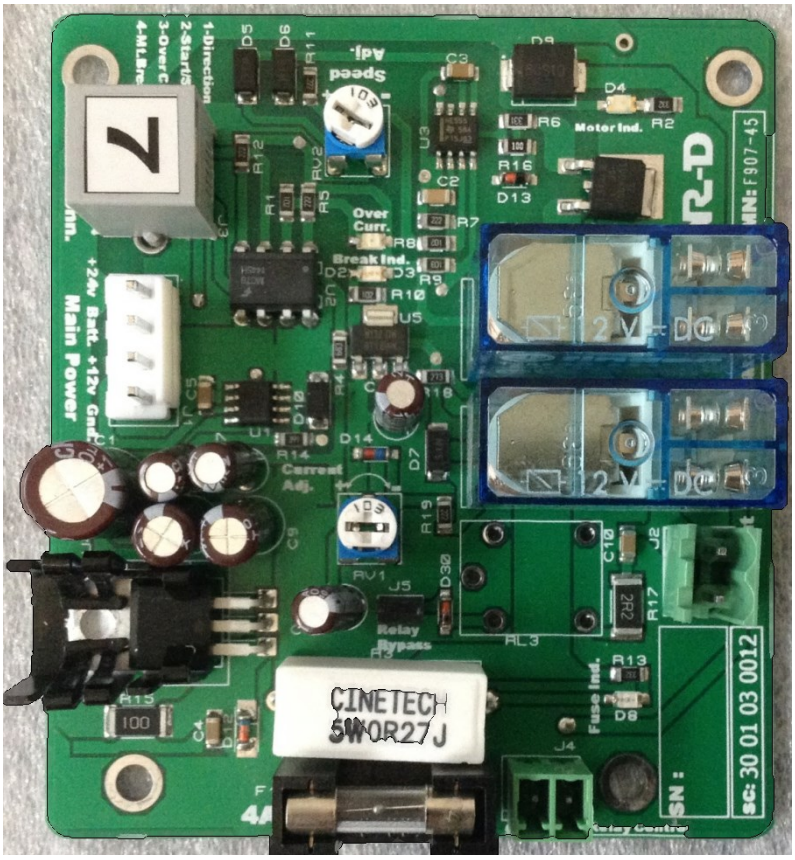
3 - 4	
DISPLAY UNIT	
1	Gnd
2	Data (Tx)
3	+24Vdc
4	Data (Rx)



FRONT VIEW

MOTOR DRIVER BOARD

HG MOTOR DRIVER BOARD CURRENT ADJUSTMENT



CURRENT ADJUSTMENT PROCEDURE:

In HG and GLA models the circuit board has an overcurrent protection feature with threshold adjustable by RV1 'current'

1. Do not change speed adjustment unless a replacement board is installed. Otherwise, set the speed at factory default .

2. Adjust 'current' carefully by observing red 'overcurrent' LED. The LED should blink for minimal duration each time the motor starts. If the led blinks too long and brightly, turn adjustment left (CCW) for minimal flash duration.

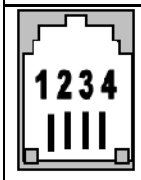
Note: If the speed setting is changed, 'current' must be re-adjusted.

MAİN POWER

1 +24Vdc
2 Batt.In
3 +12Vdc
4 Gnd.

7

DATA CONNECTOR



1 Direction Control
2 Start/Stop Control
3 Over Current Out
4 Motor Brake Control

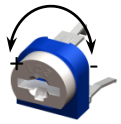
9

MOTOR OUT

1 Motor Out (Brown)
2 Motor Out (Blue)

RV2

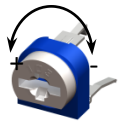
MOTOR SPEED ADJ.



\+ left
\- right

RV1

MOTOR CURRENT ADJ.

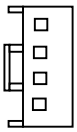


\+ left
\- right

MAIN POWER (SMPS)

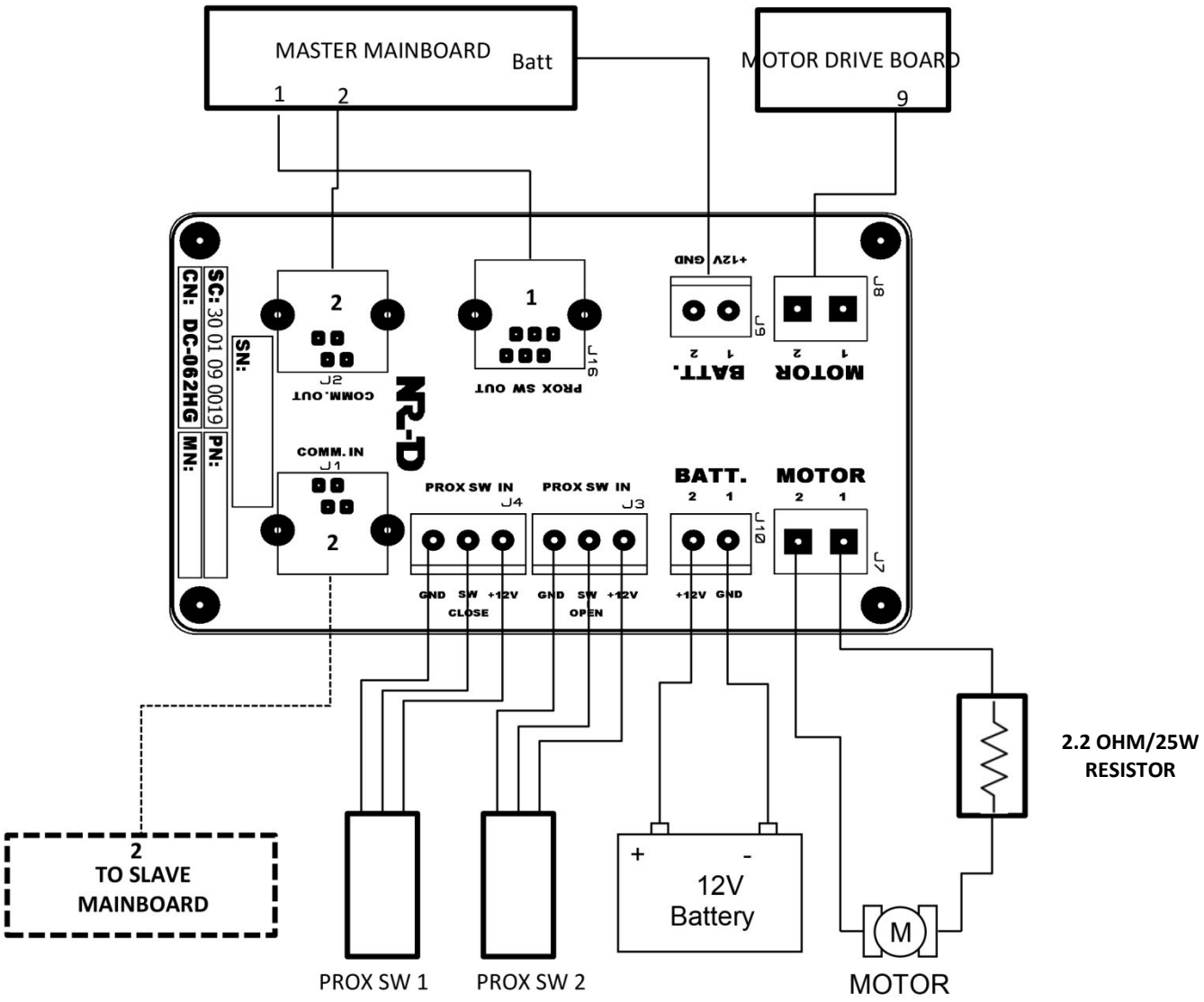
MAIN POWER

SMPS POWER CABLE

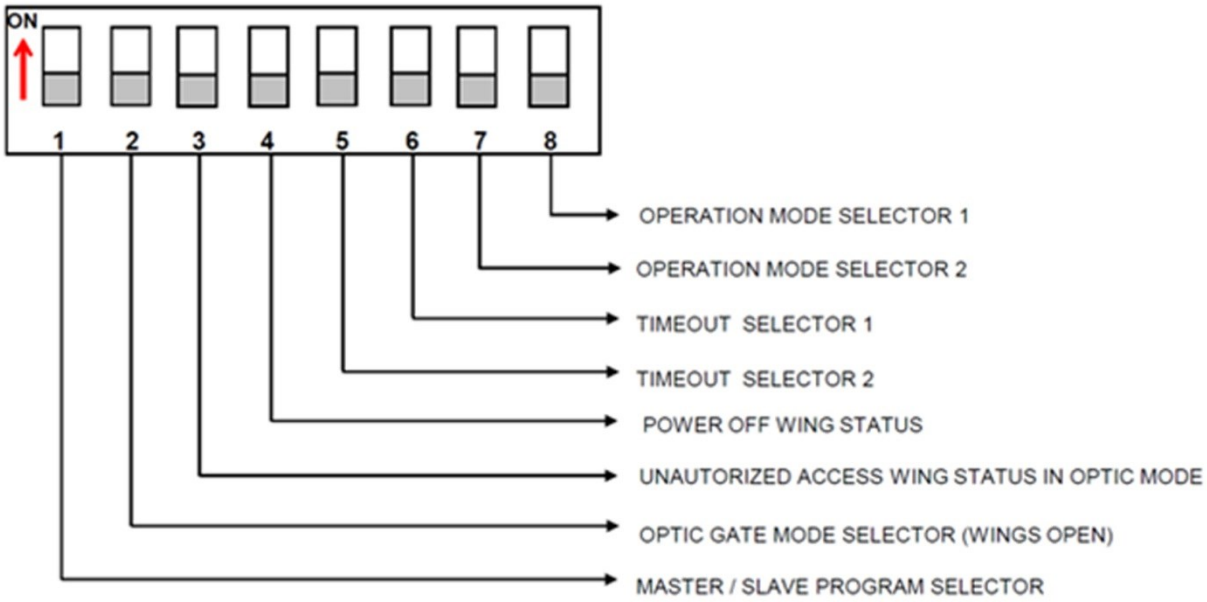


1 +24Vdc
2 +24Vdc
3 Gnd.
4 Gnd.

MOTOR ASSEMBLY



DIP SWITCH SETTINGS



MASTER / SLAVE PROGRAM SELECTION

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

OPTIC GATE MODE SELECTOR (WINGS STAY OPEN)

SW 2	EXPLANATION (Optic Gate Mode)
ON	OPTIC GATE MODE-Wings open in standby
OFF	NORMAL MODE-Wings closed in standby

UNAUTHORIZED ACCESS WING STATUS IN OPTIC GATE MODE

SW 3	EXPLANATION (Recommended 'ON' in Optic Mode)
ON	Unauthorized Access- Wing Stays Open-Alarm Only in optic gate mode
OFF	Unauthorized Access- Wing Closes (**Warning!**-Risk of injury or damage)

NO POWER WING STATUS

SW 4	EXPLANATION
OFF	Wing Stays Open When Power Is Off (Default Fail Safe)
ON	Wing Stays Closed When Power Is Off

TIMEOUT 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

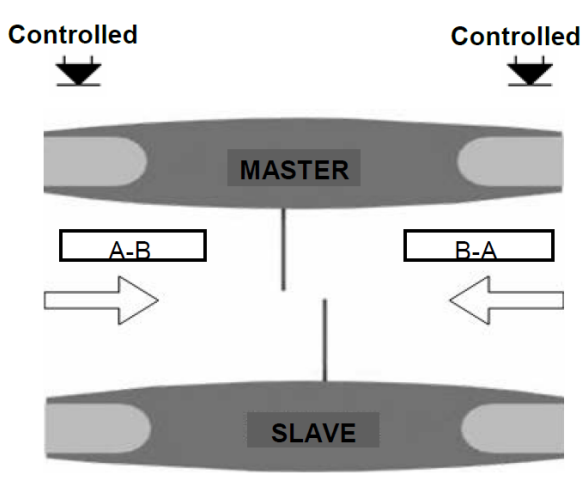
PROGRAM MODE SELECTION

SW 7	SW 8	EXPLANATION	
OFF	OFF	Passage With Standart Normally Open Contact	
ON	OFF	Bi-directional free passage	* For Only Master Unit * For Details Refer To OPERATION FUNCTIONS
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	

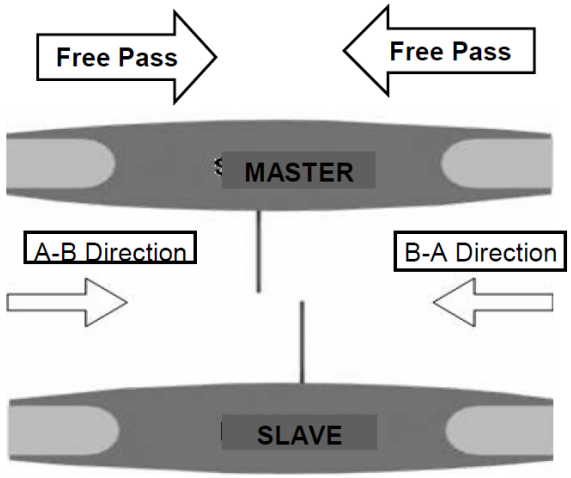
DIP SWITCH CONFIGURATIONS

	OPERATION MODE SELECTION (MASTER SIDE)		
	SW 7	SW 8	EXPLANATION
MODE 1	OFF	OFF	Passage With Standart Button Control
MODE 2	ON	OFF	Free Access in Both Directions
MODE 3	OFF	ON	A-B Direction : Free Passage With Photocell , B-A Direction : Controlled Access
MODE 4	ON	ON	B-A Direction : Free Passage With Photocell , A-B Direction : Controlled Access

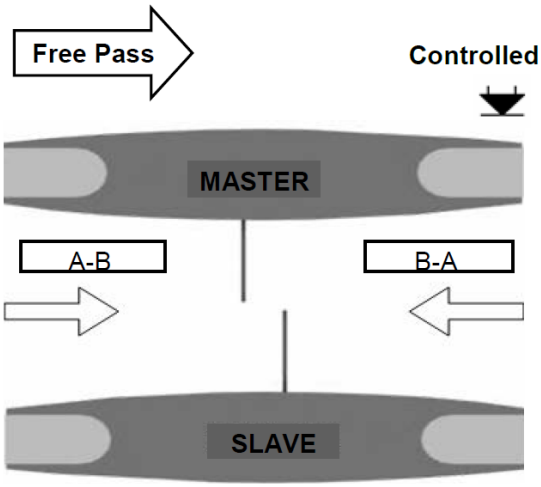
SLAVE SIDE SW 8 (High Flow Rate Free Passage Mode)	
ON	High flow rate free passage mode (unrestricted)
OFF	Free passage one person at a time



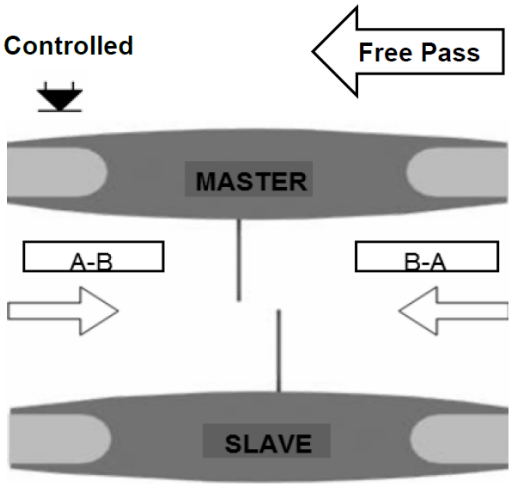
Mode 1



Mode 2

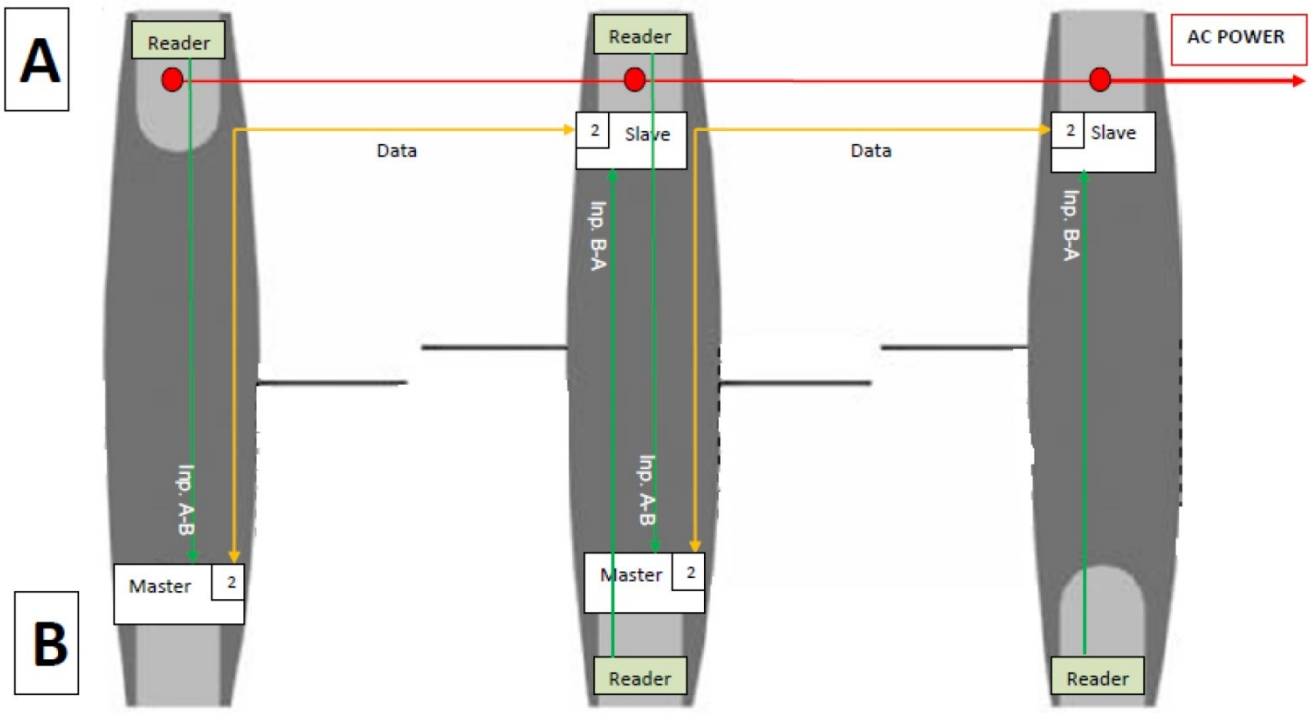


Mode 3

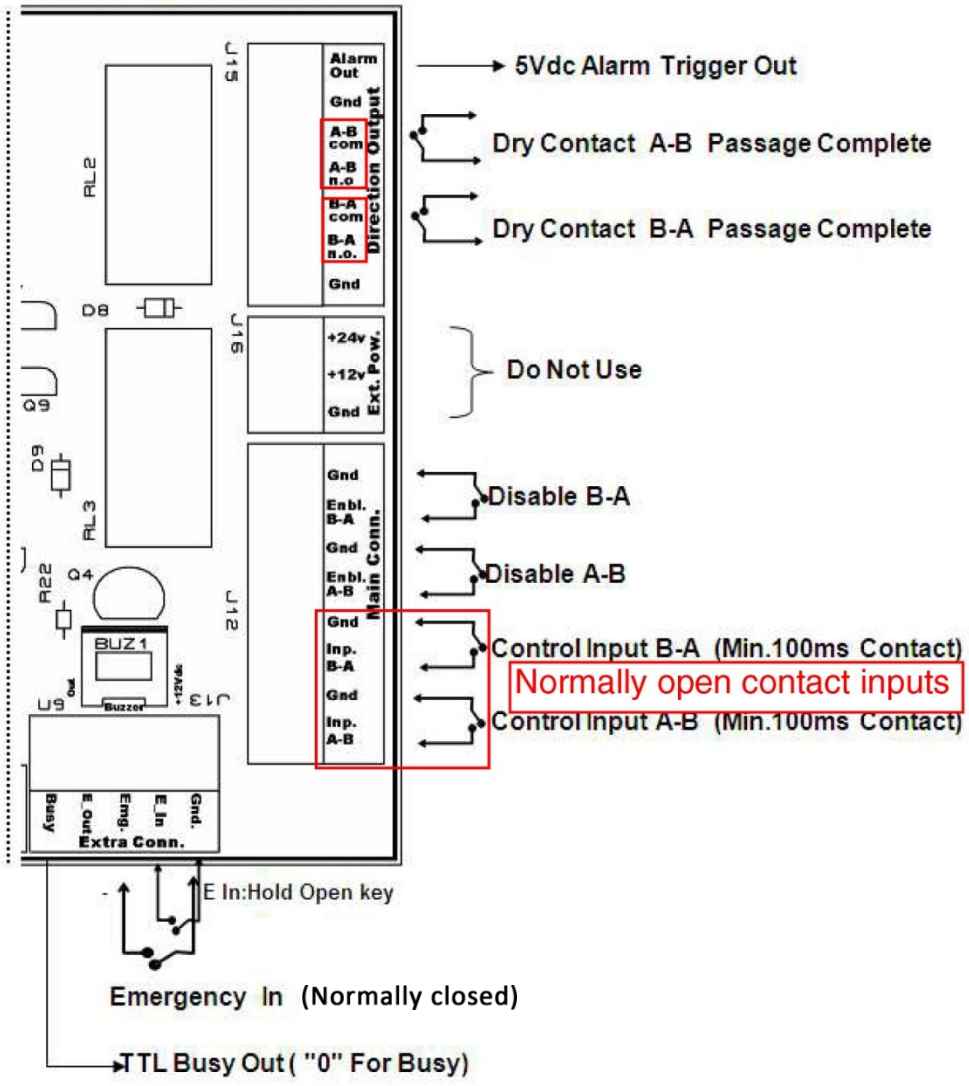


Mode 4

HG 01 SYSTEM WIRING DIAGRAM



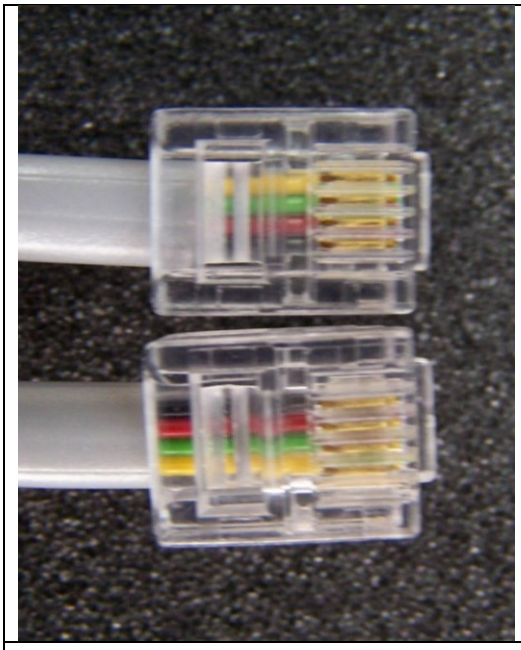
User Control Terminals



Defect	Possible Cause	Action
No Power	1. Faulty power lines, connections. 2. Blown fuse in power supply 3. Faulty 24V power supply unit 4. Other	1. Check/repair power lines/connections 2. Replace fuse in power supply 3. Check/replace 24V power supply unit 4. Contact Ozak technical support
No response to inputs-(No error indicated on LCD diagnostic screen) Note: LCD Diagnostic Screen is located in Master unit.	1. Faulty card reader or button connections 2. Defective/incompatible card reader or button 3. Faulty Control Board 4. Other	1. Repair/correct input connections – Isolate problem by manual input (Remove reader wires, short InA or InB to Gnd) 2. Replace card reader or button 3. Replace control board 4. Contact Ozak technical support
No wing movement. Audio error signal. LCD diagnostic screen message: **E01** (Master) or **E11** (slave) (Refer to pg 16 for error codes)	1. Loose/open motor driver board connection 2. Blown fuse on motor driver board (blinking yellow LED) 3. Incorrect motor driver board current setting 4. Faulty motor driver board 5. Other	1. Tighten plug/repair connection 2. Replace fuse (T rated slow-blow fuse) **3.** Set motor driver current **(see pg.10 motor current adj.)** 4. Replace motor driver board 5. Contact Ozak tech support
Jittery wing movement-Wing stalls during movement. (Red current LED on motor driver board flashes more than once)	1. Mechanical obstruction 2. Incorrect motor driver current setting	1. Remove mechanical obstruction 2. Set motor driver current (**see pg.10 motor driver current adj.**)
No wing movement. Audio error signal. Red X on front indicators. LCD diagnostic screen message: **E15**	1. Unplugged/loose Master –Slave data cable (plug #2) 2. Faulty/cut cable and connectors 3. Other	1. Plug in data cable (#2 plugs on M and S boards) 2. Repair/replace data cable (**see pg.16**) 3. Call Ozak tech. Support
No wing movement. Audio error signal. Slave wing illuminated red. **Red LED blinking on PC330 IR receiver board** (Master unit). Diagnostic screen message: **E5, E7 or E10** depending on location of faulty photo sensor (see pg.16).	1. Loose transmitter or receiver module plug/connection 2. Misaligned/dislocated/blocked photo sensor module 3. Faulty photo sensor 4. Other Note: Normally steady Red LED in receiver module blinks in case no IR beam is detected due to a fault.	1. Tighten plug/ repair connection 2. Align /secure/clean sensor module 3. Replace faulty photo sensor module 4. Contact Ozak tech support.
No wing movement. Audio error signal. **Blinking Red LED on PC330 board and in all receiver photo sensor modules.**	1. Insufficient IR transmitter power setting 2. Loose IR transmitter board connection 3. Other Note: IR transmitter board is located in slave unit.	1. Increase IR transmitter power (**see pg-8** turn adjustment clockwise) until LED on PC 330 is steady red. 2. Tighten/repair connection 3. Contact Ozak tech support
No wing movement. Audio error signal. Both wings are blue (green if in free passage mode). No red LED on PC 330 board. Diagnostic screen message: **E10**	1. PC330 IR receiver board connector (#6) is loose/ faulty connector or wiring 2. Faulty PC330 board 3. Other	1. Tighten connector/repair faulty connector or wiring 2. Replace PC330 board 3. Contact Ozak tech support
One wing constantly moves in and out. Can not find stop reference position. Yellow LEDS for wing sensors not lit or both lit at the same time (next to plug#1). LCD diagnostic screen message: **E13, E14** (see pg.16)	1. Loose/faulty magnetic wing position sensor connection 2. Faulty/damaged magnetic wing position sensor 3. Faulty electronic control board 4. other	1. Repair/tighten connections (Plug #1 on control board 2. Replace magnetic wing position sensor 3. Replace control board 4. Contact Ozak tech support
Wings do not open automatically when power is cut off	1. Depleated 12V back up battery 2. Loose battery connection J2 3. Other	1. Charge or replace battery 2. Check batt. connector J2 (white) and wiring on main board 3. Contact Ozak tech support

CAUTION!
HG 01 DATA CABLE CONFIGURATION

- THIS DATA CABLE END CONNECTIONS ARE IN REVERSE ORDER AS SEEN IN PICTURE BELOW. IF THIS CABLE IS CUT FOR ANY REASON, PAY ATTENTION TO THE COLOR CODING OF CABLE ENDS INSERTED TO THE CONNECTORS!
- DO NOT USE AN ORDINARY TELEPHONE CABLE OR SUCH AS REPLACEMENT!
- WHEN CONNECTING DATA CABLE FROM ONE UNIT TO ANOTHER ALWAYS CONNECT MASTER BOARD (M) PLUG #2 TO PLUG #2 Of SLAVE (S) AS DESIGNATED BY LETTERS ON MICROPROCESSOR PROGRAM CODES.



MICROPROCESSOR PROGRAM CODES.

Color coding of one end

1.Yellow
2.Green
3.Red
4. Black

Color coding of other end

1.Black
2.Red
3.Green
4.Yellow

HG 01 DIAGNOSTIC SCREEN CODES

(For 2012 and later models)

NOTE: Re-initialize the units (power off-power on) to read error codes on LCD diagnostic screen. Power up both units at the same time; if this is not possible always power up Slave side before the Master to avoid communications error.

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
E07	MASTER A-B TOP 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

The HG series turnstiles are low maintenance products when installed and used properly. Following annual maintenance is recommended for 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 • Securely re-seat /replace top cover • Re-position cover/panel for adequate clearance with moving parts	Clean with soft damp cloth as required
Photocells	• Dust and contamination • Loose connectors	• Clean with soft cloth/brush or pressurized dry air • Tighten connectors	
Photocell tubes	• Loose /misaligned	• Align/tighten	
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 set in middle and not bent/ angled
Crank mechanism	• Excessive play /noise in bearings • Loose screws • Loose/ deformed motor pin	• Replace crank bearing • Replace/ tighten screw • Replace pin	Panels must move smoothly with no jamming or excessive noise.
Wing speeds/Syncronization	• Excessive speed/ wings out of sync	• Adjust/syncronize • Adjust current*	Wing opening speed:0.5 sec. * Motor driver adjustment procedures in tech. manual
Electronic boards	• Loose connector s	• Tighten connectors	
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!

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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WEB : www.ozak-t.com

ÖZAK GEÇİŞ TEKNOLOJİLERİ SAN. TİC. A.Ş.

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.

CE UYGUNLUK DEKLARASYONU / CE DECLARATION OF CONFORMITY

CE

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*

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