



Residential Elevator Products

250 Hamilton Road [®] Arlington Heights [®] Illinois 60005

Phone 847.593.4900 Fax 847.593.1394

www.emiporta.com



250 Hamilton Road ● Arlington Heights ● Illinois 60005

Phone: 847.593.4900 Fax: 847.593.1394 www.emiporta.com

Thank you for your interest in our company, Porta Inc. We encourage the use of our catalog, as a useful guide to facilitate your purchasing needs.

If you require additional information or have any questions, please do not hesitate to contact us.

Technical Assistance:

Paul Crocilla

Sales & Pricing Information:

Pamela Colditz



250 Hamilton Rd.
Arlington Heights, IL 60005
Phone: 847-593-4900
Fax: 847-593-1394

NEW CUSTOMER CREDIT APPLICATION

For the purpose of establishing credit with creditor I/we, the undersigned, warrant the financial information below to be true correct and complete to the best of my knowledge and hereby authorize any credit investigation needed for verification.

NAME OF BUSINESS (dba)		SOLE <input type="checkbox"/>		PARTNERSHIP <input type="checkbox"/>		CORPORATION <input type="checkbox"/>	
CORPORATION OR OTHER NAME				DATE BUSINESS STARTED			
STREET ADDRESS		CITY, STATE			ZIP CODE		
BILLING ADDRESS		CITY, STATE			ZIP CODE		
BUSINESS PHONE NUMBER		FAX NUMBER		ACCOUNTS PAYABLE PHONE NUMBER		FAX NUMBER	
ACCOUNTS PAYABLE CONTACT		PURCHASING CONTACT					
BANK NAME AND BRANCH		BANK PHONE NUMBER			BANK ACCOUNT#		

Name and address of officers, partners owners or other responsible parties.

	FULL NAME	TITLE	RESIDENCE ADDRESS	PHONE NUMBER
1				
2				
3				

List four principal suppliers with whom you have maintained credit for a minimum of one year.

	COMPANY NAME & LOCATION	ACCOUNT NUMBER	PHONE NUMBER	FAX NUMBER
1				
2				
3				
4				

Read before signing. I/we hereby agree to the terms, net 30 days unless otherwise stated. In the event of collection, customer pays all costs and attorney fees. Any balance over 30 days is subject to a service charge of 1.5% per month (18% per annum).

Signature

Title

Date

FOR CORPORATION ONLY - General Continuing Guarantee

In Consideration of the extension of credit for goods extended by the seller mentioned above I/we:

NAME	ADDRESS
NAME	ADDRESS

We the undersigned, do hereby jointly severally and personally guarantee the prompt payment of any and all indebtedness of the applicant to the seller according to the terms thereof.

In case suit or action is instituted to collect any portion of an account owed by any parties to the agreement, I/we promise to pay such additional sums as the court may adjudge reasonable, including attorney's fee.

Signature

Date

Signature

Date



Hinge Finish (required w/each gate) ☐ Nickel ☐ Bronze

Stack Position: ☐ Right Qty: _____ ☐ Left Qty: _____ (viewed looking into the elevator cab)

Gate Dimensions:

Cab Opening Height:
Measure from where the top track is/will be mounted to the top of the sill.

Inches: _____

Cab Opening Width:
Measure from where the gate will be permanently mounted to the strike/jamb on the opposite side of cab.

Inches: _____

(Standard Center Pinned Gates Shown)

		# of Panels & Widths		
		Center Pin	Off Set Pin	
		Nom.	Nom.	
<input type="checkbox"/>	7 Panel	34"	29"	Max. Gate Stack
<input type="checkbox"/>	9 Panel	42"	37"	6 1/8"
<input type="checkbox"/>	11 Panel	51"	45"	7"
				7 1/8"
<input type="checkbox"/>	6 Panel	29"	29"	Max. Gate Stack
<input type="checkbox"/>	8 Panel	37"	37"	6 1/8"
<input type="checkbox"/>	10 Panel	45"	45"	7"
				7 1/8"



Order Form

Porta, Inc. www.emiporta.com
email: pam@emiporta.com or orders@emiporta.com
250 Hamilton Rd. Arlington Heights, IL 60005
Phone: 847-593-4900 Fax: 847-593-1394

Porta Fixtures / COP Order Form

Bill to:	Ship to:	Order Date:
		Ship Date:
		PO#:
		Job Reference /Name:
Contact:	Phone / Fax / Email:	
VISA/MasterCard/AMEX	Expiration Date	Security Code
		Ship Via:

Lead-times; Stainless 1 Week & Bronzes or Brushed Brass 2 Weeks

COP	BR	4	0	L	P K
	Finish	# of Stops	Phone	P.I. or Light	ADDERS
	BB = Brass	2	O = No Phone	P = Position Indicator	P = Plug & Play
	BD = Dark Bronze	3	P = Phone	L = Emergency Light	K = Key Switch
	SS = Stainless Steel	4			
		5			
		6			

Qty Cab Operating Panels:

	COP
	COP
	COP
	COP
	COP

Hall Stations

COPHS	BR	1
	Finish	# of Buttons
	BB = Brass	1 = Call
	BD = Dark Bronze	2 = Call &
	SS = Stainless Steel	Car Here
		K = Key Switch

Auxillary Panels

COPA	BR	L
	Finish	Options
	BB = Brass	P = Position Indicator
	BD = Dark Bronze	L = Emergency Light
	SS = Stainless Steel	PH = Phone

Qty Hall Stations:

	COPHS
	COPHS
	COPHS
	COPHS
	COPHS

Qty Auxillary Panels:

	COPA
	COPA
	COPA
	COPA
	COPA

Notes:

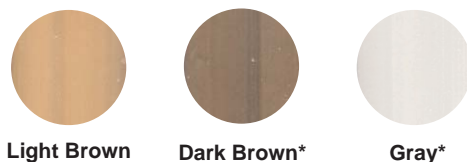
Residential Accordion Gates

Our accordion gates are available in natural hardwood, vinyl laminate, acrylic or aluminum panels. All hardwood and vinyl laminates are laminated to a 1/4" medium density fiberboard core. Natural hardwood is sealed with a protective clear lacquer or can be left unfinished per customer request.

Natural Hardwood

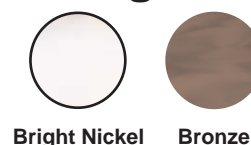


Panel Connectors



**Also available in hard-hinge connectors - Dark Brown or Gray*

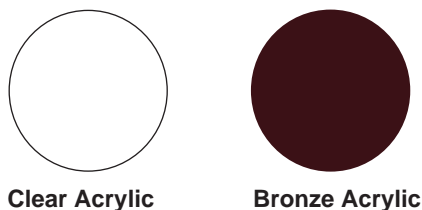
Hinges



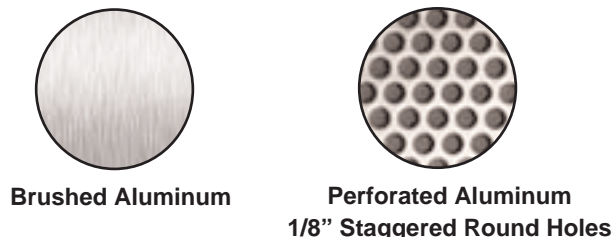
Vinyl Laminate



Acrylic



Aluminum



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SPEC.: REV 1
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Residential Accordion Gates

General Gate Specifications

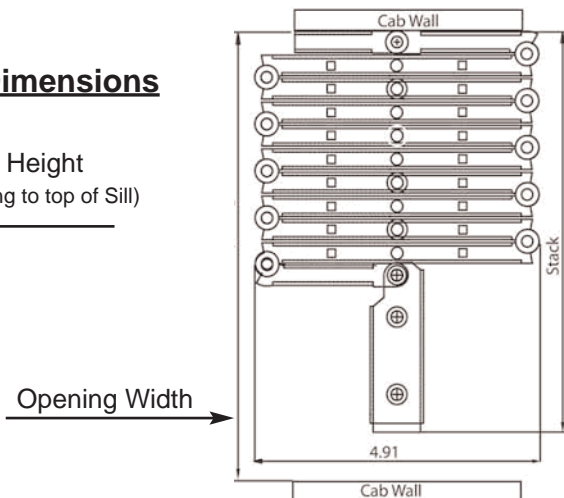
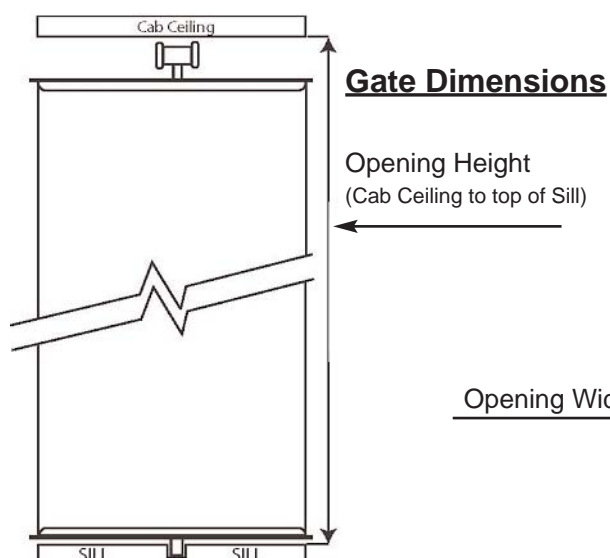
• Center or Offset Hinge Designs

• Top Track •

1^{1/8}" x 1" x 0.080" aluminum
extrusion

• Bronze or Clear Finish •

Viewed as looking into the elevator cab



Gate Width (Cab Wall to Cab Wall)

<u>Center Pin</u>	<u>Nom.</u>	<u>Max</u>
7 Panel	34"	36"
9 Panel	42"	44"
11 Panel	51"	54"

<u>Off Set Pin</u>	<u>Nom.</u>	<u>Max.</u>
6 Panel	29"	31.8"
8 Panel	37"	39.8"
10 Panel	45"	47.8"

Stack Dimensions

Finished Opening	Stack
28" - 36"	6 1/8"
37" - 44"	7"
45" - 52"	7 7/8"



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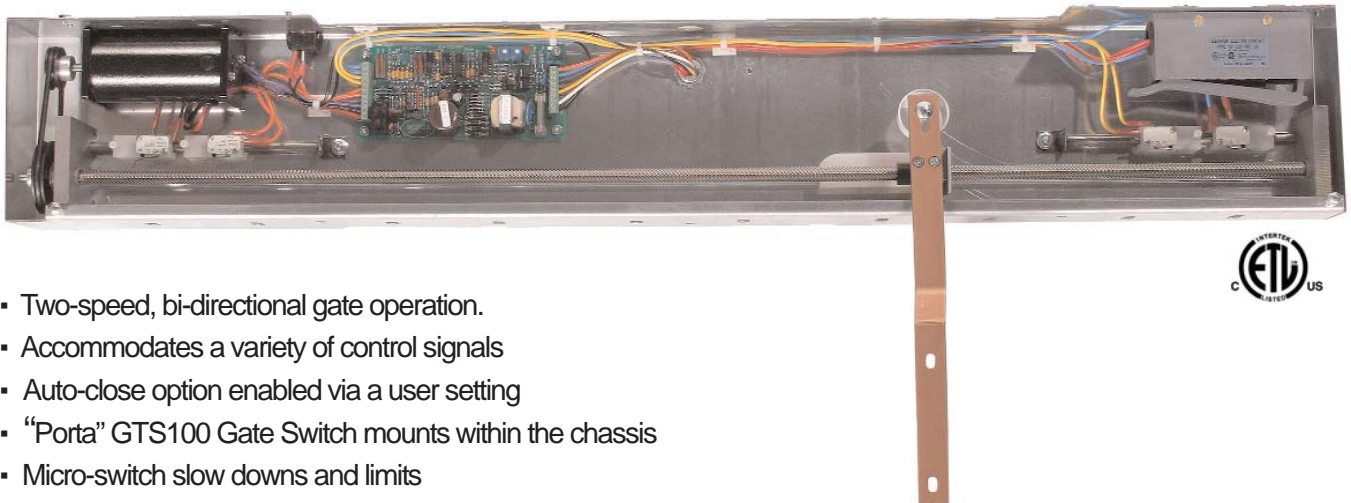
SPEC.: REV 1
DATE: AUG 07

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KIS100 Power Gate Operator

Porta's **KIS100 Power Gate Operator** is a proven product that provides a user-friendly, dependable and cost effective means of automating accordion gates used in residential and L.U.L.A. Elevators. It has passed an accelerated life test of 25 years of normal residential uses (100,000 cycles).

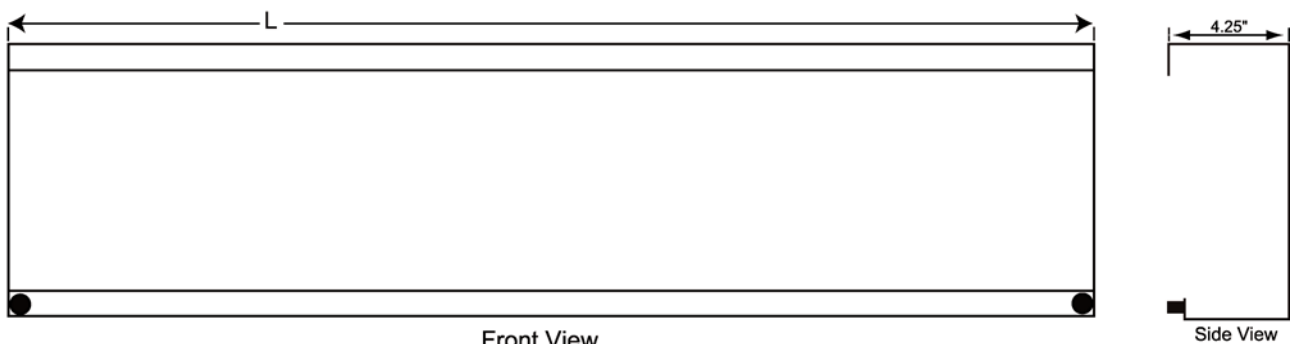


- Two-speed, bi-directional gate operation.
- Accommodates a variety of control signals
- Auto-close option enabled via a user setting
- "Porta" GTS100 Gate Switch mounts within the chassis
- Micro-switch slow downs and limits
- Magnetic coupling of gate to operator
- Field connections pre-wired

KIS100 Operator

General Specifications

Dimensional Data



Gate Travel	"L"
29 Inches	36 1/2"
32 Inches	39 1/2"
36 Inches	43 1/2"
42 Inches	49 1/2"



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SPEC.: REV 1
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KIS100
Power Gate Operator
Installation Manual

Table of Contents

Introduction	page 1
Technical Specifications	page 2
Installation Mechanical	page 3
Installation Electrical	page 5
Electrical Schematic	page 6
Troubleshooting	page 7
Emergency Power Connections	page 8
Maintenance and Servicing	page 9

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Introduction

The KIS100 gate operator is a proven product that provides a user friendly, dependable and cost effective means of automating accordion gates used in residential and LULA elevators. It has passed an accelerated life test of 25 years of normal residential use (100,000 cycles).

This product conforms to UL508A, ASME A17.1A, ASME A17.5, CSA-B44-94, and CSA-C22.22, No. 14-M91.

Features & Benefits

- **Two Speed bi-directional gate operation**

- **Selectable Auto-Close feature**

Will automatically close the gate when the open signal is removed

- **Variety of Control Signalization**

The KIS100 can accommodate a variety of control voltages or dry contact signals.

- **Emergency Power Input**

In the event that the 110VAC power is interrupted, 24VDC may then be applied to operate the unit.

- **GAL type G gate switch (optional)**

Mounts within the KIS100 chassis

- **Micro-switch slow downs and limits**

Provide a simple and accurate means of decelerating and stopping the gate

- **Magnetic coupling of gate to operator**

Provides a simple and positive means of preventing damage or injury in the case of an obstruction. If the resistance to gate closure exceeds the magnetic coupler, the gate dis-engages and becomes a manual gate. There is nothing to get out of adjustment or reset. This coupling system also allows for moderate mis-alignment of operator and gate.

- **14" gate arm**

Reduces bottom hinge lag

- **Quiet Operation**

A precision ground lead screw drive system provides virtually silent operation.

- **Retrofit existing installations**

The footprint of the KIS100 is the same as the standard Accordion gate

- **PWM motor drive**

Provides quiet operation, longer motor life and reduced power consumption.



ATTENTION!

WARNING: The installation of this device should only be performed by a professional elevator technician that has a full understanding of this device's operation and function.

Note: If there is any doubt regarding the installation procedures, please call the factory for assistance. We are available M-F 8:00 am to 5:00 pm Central Time.

WARNING: Failure to comply with all instructions and "WARNING"(s) can result in a safety system compromise. This, in turn, can result in serious injury or death.

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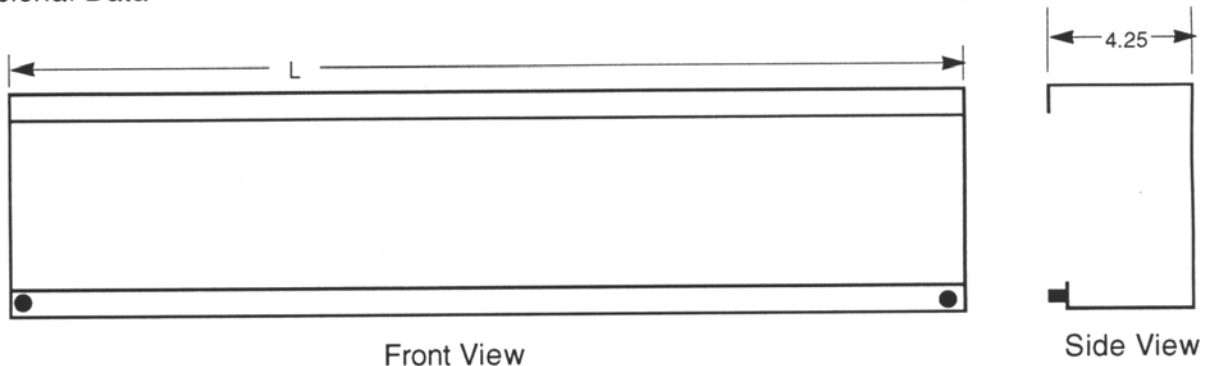
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Technical Specifications

Input Power	120VAC
Motor	90VDC
Motor Drive	1A(P.W.M.)
High Speed (nom.)	107sec.
High Speed Adj.	0-120%
Low Speed Adj.	0-80%
Drive Belt	0-Ring (343)
Control Interface Options	Dry Contact
	120VAC
	12/24 VDC
Gate Switch	GAL type G

Dimensional Data



Gate Travel	"L"
29 Inches	36 1/2"
32 Inches	39 1/2"
36 Inches	43 1/2"
42 Inches	49 1/2"

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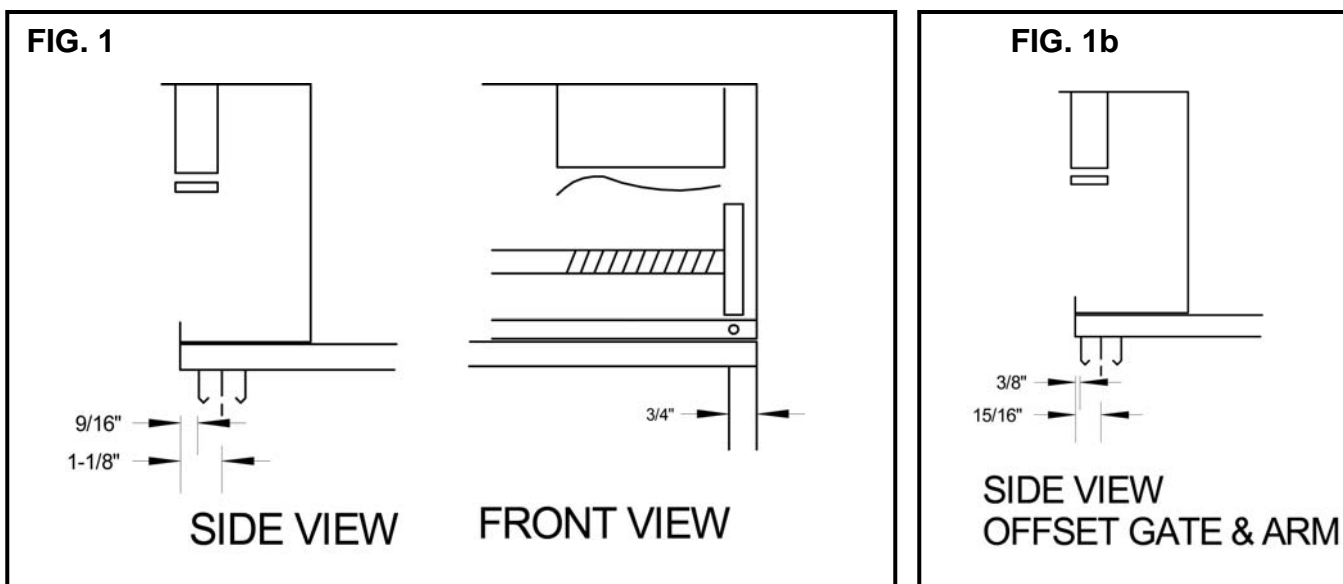
INSTALLATION - MECHANICAL

1. Unpack the unit, remove the cover, and check for any physical damage before proceeding.
2. Check to see that you have the correct hand unit. The operator is designed so the motor is on the stack side of the gate. The operator can be made to work on the opposite hand, but on most jobs it will require a large amount of overhang. The chassis is symmetrical; if necessary you can covert hand in the field, however this will VOID THE WARRANTY.
3. Operate the gate manually. The door must operate smoothly without any binding. Correct any problems with the gate before proceeding.
4. Mark a line on the car top corresponding to the centerline or the front edge of the gate track.
5. If the distance from the gate track centerline to the edge of the car top is more than 1 -1/8", there are two options: Shim out connecting arm (maximum recommended distance is 1/2"), or cut back the edge of the car top. If you need to cut back the car top, do so now - cut so there is 1-1/8" from the gate track centerline to the edge.

6. OFFSET GATE APPLICATION

For an offset gate, refer to Figure 1b. If the distance from the gate track centerline to the edge of the car top is more than 15/16", cut back the edge of the car top. As illustrated in Figure 1b, the gate track centerline to the car top edge should not exceed 15/16".

7. Place the operator on the cartop. Set the operator so the front edge is 1-1/8" (max) from the centerline or 9/16" (max) from the front edge of the gate track toward the inside of the car, and so the lead end is 3/4" past the gate strike. See Fig 1.



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INSTALLATION - MECHANICAL (CON'T)

7. Pull the gate to its fully closed position. Check that the drive nut is about 1/2" away from the closed side pillow block; manually rotate the lead screw if necessary (it will be easier to rotate with the drive o-ring removed). Place the gate arm magnet on the magnet flag; the middle of the magnet should be in the middle of the flag. Check that the gate switch is closed, but still has about 1/4" of follow-up. See Fig 2.

8. The gate arm should line up with the gate lead post. If not, minor adjustments can be made by simply moving the gate arm magnet around on the flag. Large adjustments will require repositioning of the operator.

9. With the operator and gate arm in position, mark through the mounting holes for drilling the car top and the gate lead post.

10. Move the operator so you can drill 1/8" pilot holes in the cartop and 1/4" through holes in the gate lead post. **BE CAREFUL NOT TO DRILL THROUGH THE CAR TOP IF THE HOLES WOULD BE VISIBLE.**

11. Attach the operator to cartop. #12 x 3/4 screws are provided for wood cartops. Attach the gate arm with 1/4" -20 x 1 1/4" carriage bolts and acorn nuts. See Fig. 3

12. Manually rotate the lead screw to open the gate about 1/2" from its fully closed position. Adjust the closed limit so that it "clicks" when the gate is about 1/4" from being fully closed; check by manually rotating lead screw.

13. Adjust the close slow down limit so that it is about 2" center-to-center from the closed limit.

14. Manually rotate the lead screw to about 1/2" from its fully open position. Adjust the open limit so that it "clicks" when the gate is about 1/4" from being fully open; check by manually rotating lead screw.

NOTE: LEAD SCREW ASSEMBLY IS SELF-LUBRICATING. LUBRICATION IS NOT RECOMMENDED.

NOTE: IF NEEDED, PETROLEUM JELLY CAN BE USED TO LUBRICATE THE GUIDE RAIL.

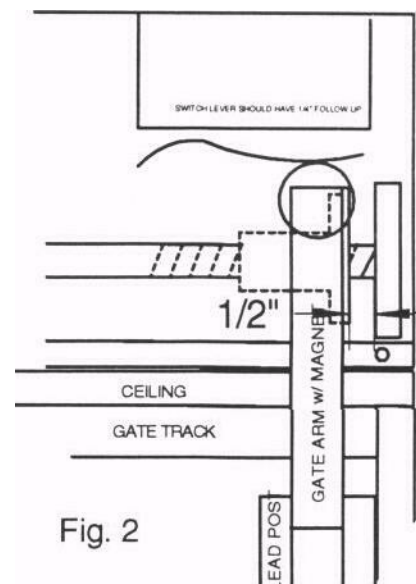


Fig. 2

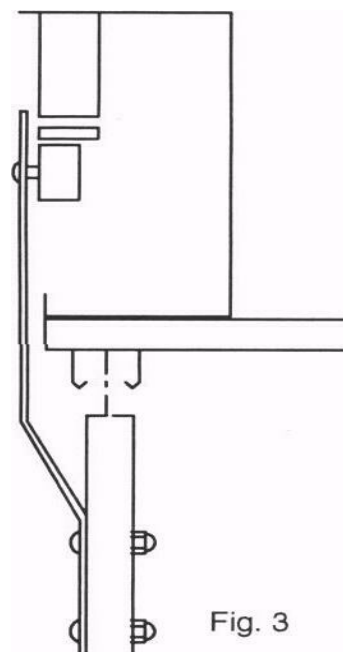


Fig. 3

Patent Pending



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INSTALLATION - ELECTRICAL

1. The KIS100 is field wired including the gate switch if so equipped. Run field wires from operator through conduit or greenfield. 2-1/2" knockouts are provided in the chassis for an appropriate fitting.

2. Ground the chassis per code.

3. Verify 120VAC power before connecting the operator.

4. Verify the type and voltage of control signal being used, refer to the Field Connection Diagrams.

5. There are 5 jumpers on the board:

SP1: Auto close; with this jumper installed the operator will automatically close when there is no signal to open. Remove if controller provides an independent close signal, or for testing and adjusting.

SP2-SP5: Are used to select the control signalization. Refer to the Field Connections

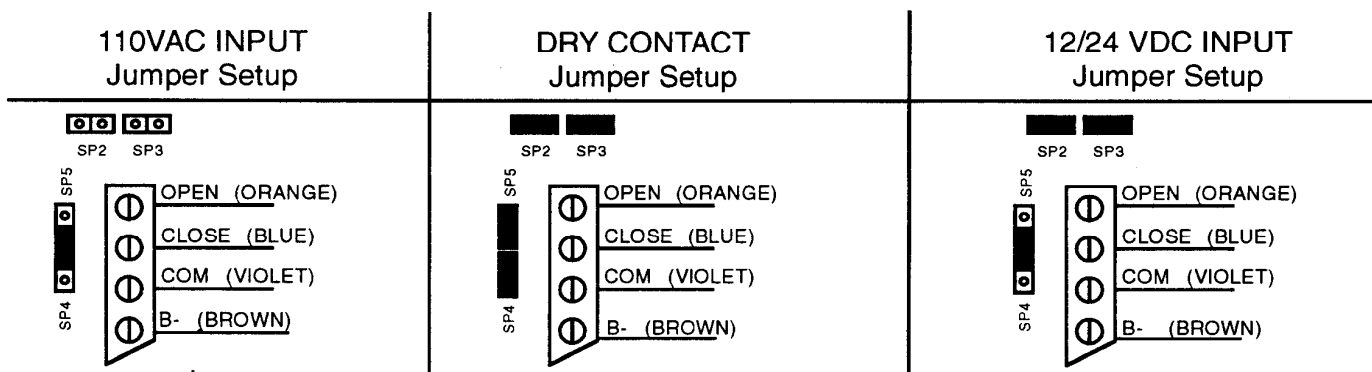
Diagrams below for the various configurations.

6. To test unit, set speed pots in the middle of their range. Then use on board toggle switch to open and close the operator. Adjust the speed control and limit switches as necessary.

7. Connect wiring from elevator controller to interface board. Reinstall SP1 if using only an open signal from the controller.

8. Test the unit for automatic operation and replace cover.

Field Connection Diagrams



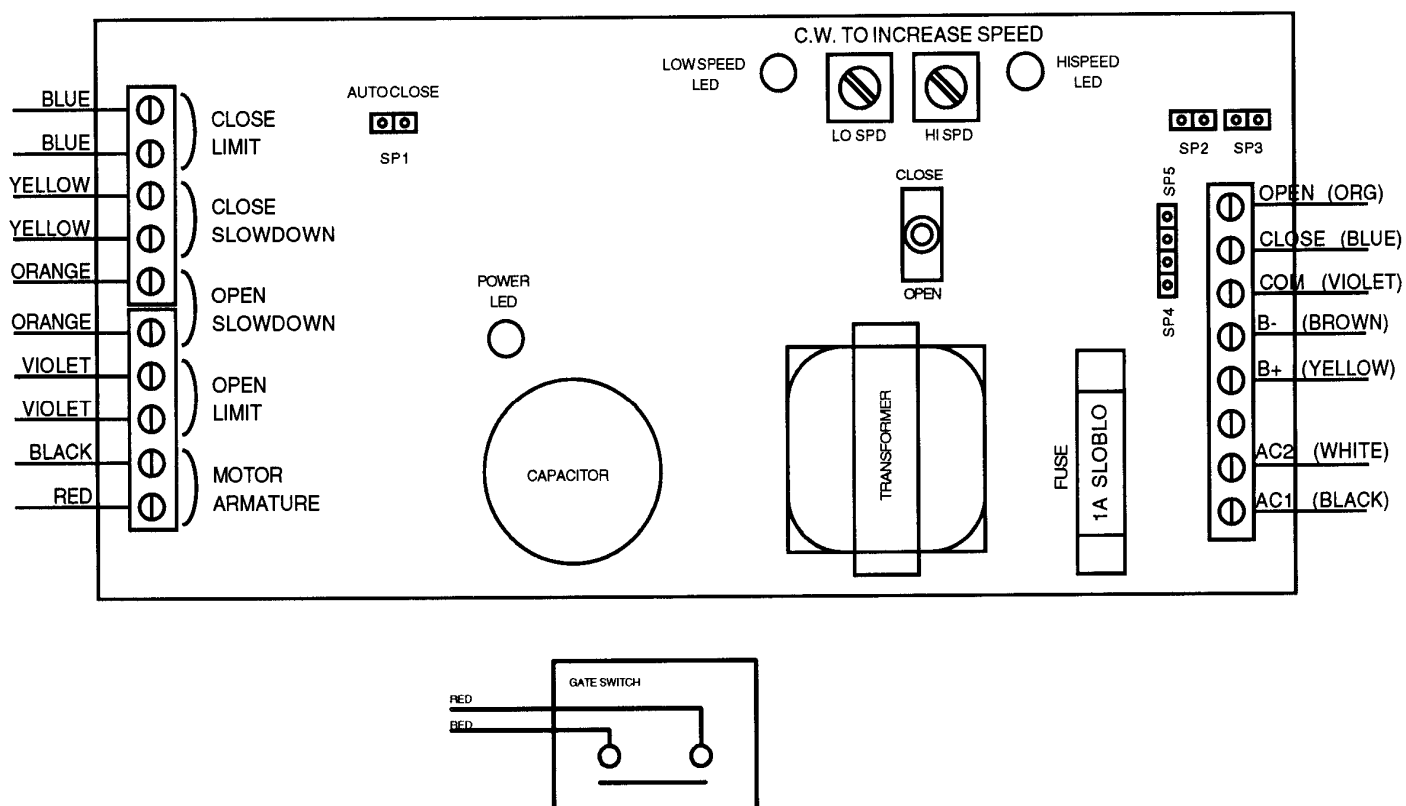
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Electrical Schematic



- AUTO CLOSE: Installing jumper SP1 enables this feature.
- Terminals "B+" and "B-" are the 24VDC Emergency Power Inputs.

Do not operate at any higher voltage.

WARNING: 110VAC Line voltage and 24VDC Emergency Power must not be present at the same time. **If they are, BOARD DAMAGE WILL OCCUR.**

- Jumpers SP2 thru SP5 are used to select the control signalization.
- Factory jumper setup is for Dry Contact signalization and Auto Close enabled.

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TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
No Function	No power	Verify 120VAC between "AC1" & "AC2"
	Fuse	Check Fuse "F1"
	Controller Signal	Check operation with test switch
	Faulty Limit	Verify that limits are closed when not actuated
No High Speed	Faulty Slow down	Verify that slow downs are open when not actuated
No low speed	Slow down not actuating	Verify that the cam engages the slow down
	Faulty Slow down	Verify that slow downs have continuity when actuated
Motor turns but no gate movement	Loose Pulleys	Verify that the drive and driven pulley's are tight on their shafts
	O-Ring	Check for loose or missing o-ring
	Gate	Check gate for excessive bind
Reverse operation	Board wiring or controller wiring	Check operation with test switch
		DOWN is open. Swap M+ & M- if necessary
Excessive breakaway force	Step 1	Put small washers on the magnets opposite the flag. If force is still excessive, go to step 2 Remove a magnet. If force is still excessive, put small washers on the remaining magnet opposite the flag.
	Step 2	
Board is powered but motor does not engage	Unit has stalled out	Step 1: Shut off power supply to unit. Step 2: Identify and remove the cause of the stall. Step 3: Power unit back up.

ATTENTION!

If the resistance to gate closure exceeds the magnetic coupler, the gate dis-engages from the operator and becomes a **MANUAL GATE**. Advise the user that they must do one of the following:

- Close the door manually to run the elevator
- Cycle the door to re-engage the magnetic coupler.

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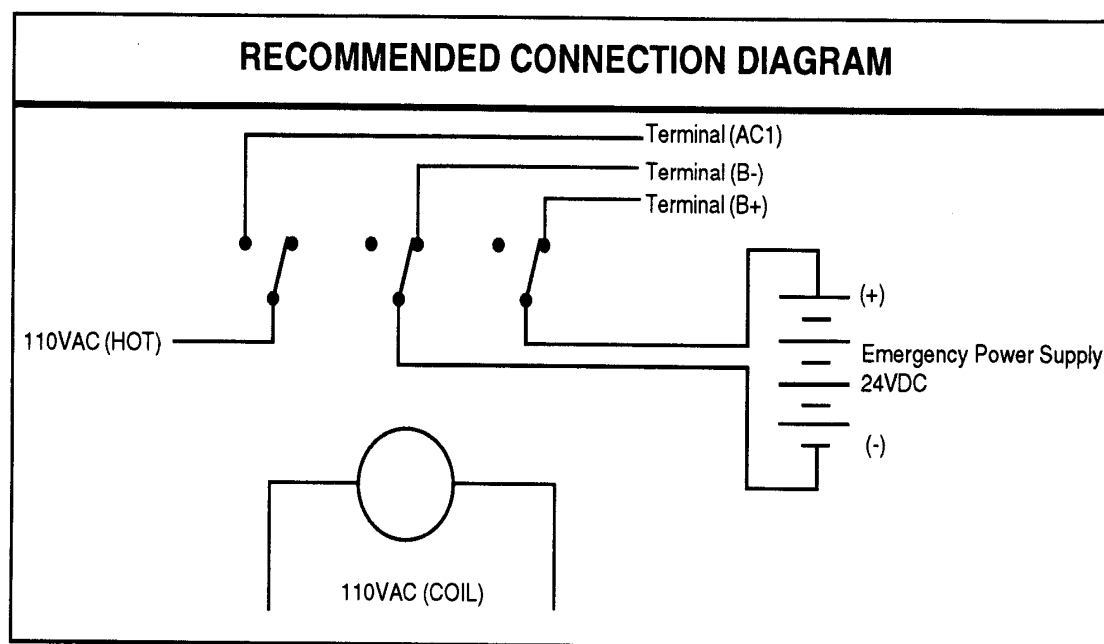
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Emergency Power Connections

General information:

The KIS100 has the ability to operate at 24VDC in the event 110VAC power is lost. The unit will operate at a reduced speed when powered by 24VDC.

Terminals B+ and B- are the battery inputs.



Recommended Relay: Omron LY3 or equivalent

NOTE: It is vital that B+ and B- are not connected to the battery when 110VAC is present on the board.

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MAINTENANCE AND SERVICING

No servicing is required, but regular inspection of the following is necessary to ensure trouble-free, long-term operation:

1. Ensure the following components are securely mounted:
 - a. Operator chassis to the car top
 - b. Gate arm to gate leadpost
 - c. Magnet assembly to the gate arm
 - d. Magnet strike to the limit switch cam
 - e. Motor, gate switch, PCB and bearing blocks to chassis
2. Check all wire connections and voltage.
3. The gate should cycle through each direction smoothly and should not rattle during operation.
4. Check for dirt or debris buildup on lead screw. Regular cleaning with a liquid degreaser is recommended.
5. Check for proper cam actuation of all four(4) limit switches.
6. Check for proper cam actuation of gate switch.

*****WARNING*****

All inspections, maintenance, repairs and replacements should be performed by elevator personnel only.



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Electro-Mechanical Door Lock

The **EMDL** is a hoistway interlock developed and manufactured by Porta, Inc. With its stylish and slender design, this electro-mechanical locking device is strictly intended for residential applications. Conforms to ASME A17.1., certified to CSA STD B44 and has passed an accelerated life test of 25 years of normal residential use (100,000 cycles).



- **Positive Acting Contacts**
(No micro-switches)
- **Cost effective**
- **Mounts to a 2^{5/8}" setback**
- **Single-use template provided**
- **Optional accessories**
 - Template kit
 - Emergency release key & finishing plug
- **Dimensions 2 x 2 x 9**



WARNING
INTERLOCK BYPASS
AND/OR REMOVAL IS
PROHIBITED BY CODE.
SERIOUS INJURY OR
DEATH COULD OCCUR.



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SPEC.: REV 1
DATE: AUG 07

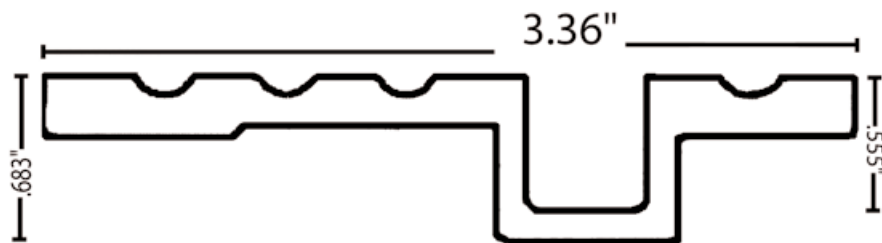
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Single Speed Car Sills



- Sleek extruded aluminum
- Anodized finishes in (*Bronze, Gold and Clear*)
- Stocked in 8ft. lengths
- Custom cut lengths upon request



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SPEC.: REV 1
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GTS100 GATE SWITCH

Features

- Designed for use in Residential Elevators
- Field Reversible for RH or LH
- Mounts from either the Top or Back
- Positive Acting Contacts
- Contacts Rated for 24vdc, 2A
- 3 - 3/4" Conduit Knock Outs provided
- Direct replacement for GAL Type "G"
- ETL Listed

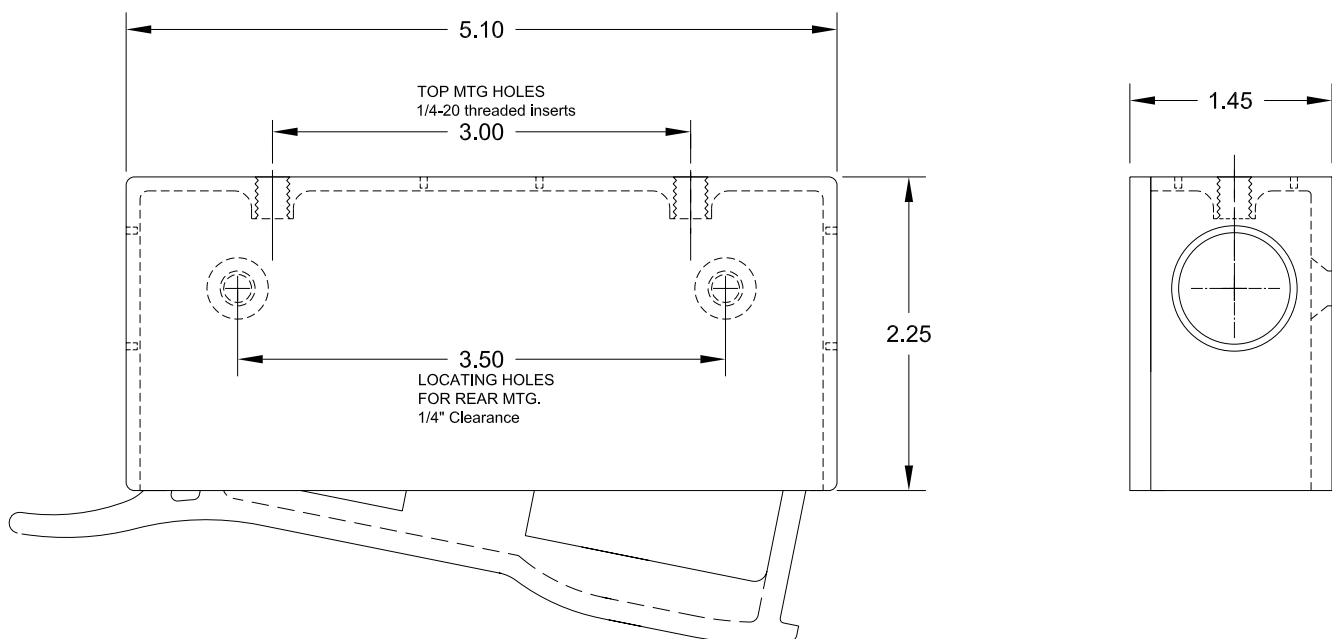


Accessories

- Gate Switch Mounting Kit
 - Gate Arm with Roller (bronze or gray) & Matching Hardware
 - Steel Bracket for Mounting Gate Switch & Hardware
 - Gate Switch Mounting Hardware



Dimensions



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SPEC.: GTS V1
DATE: FEB 2008

MANUFACTURED BY:



ELEVATOR FIXTURES

Features and Benefits

- Sleek modern design
- Residential and Commercial Applications (up to 6 stops)
- Stainless Steel, Oil Rubbed and Brass finishes with matching hall stations
- A.S.M.E compliant stop switch
- Compatible with any 24VDC system

Available Options

- Integrated Phone
- Plug and Play
- Dot Matrix Position Indicator



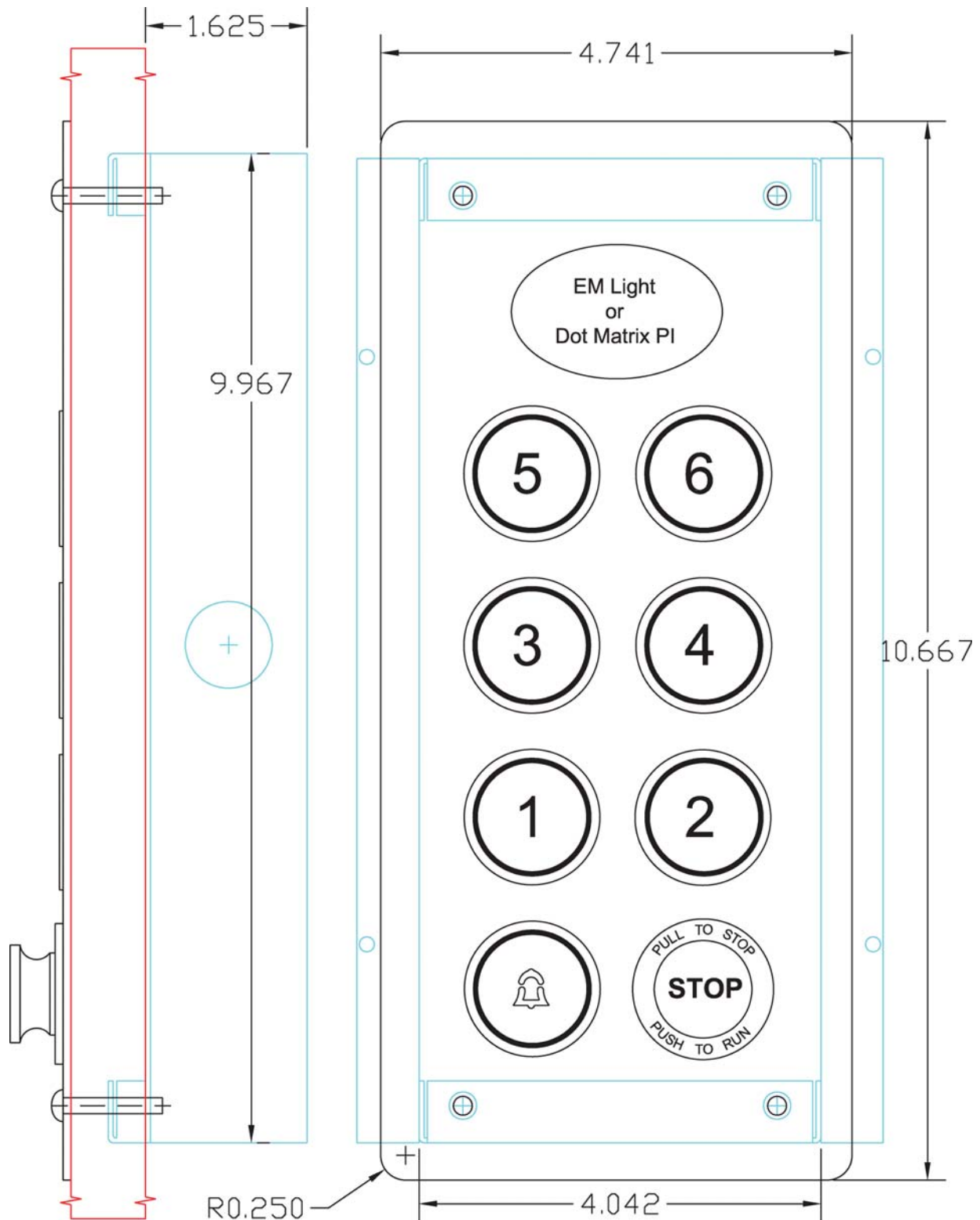
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MANUFACTURED BY:



ELEVATOR FIXTURES



Porta Inc.

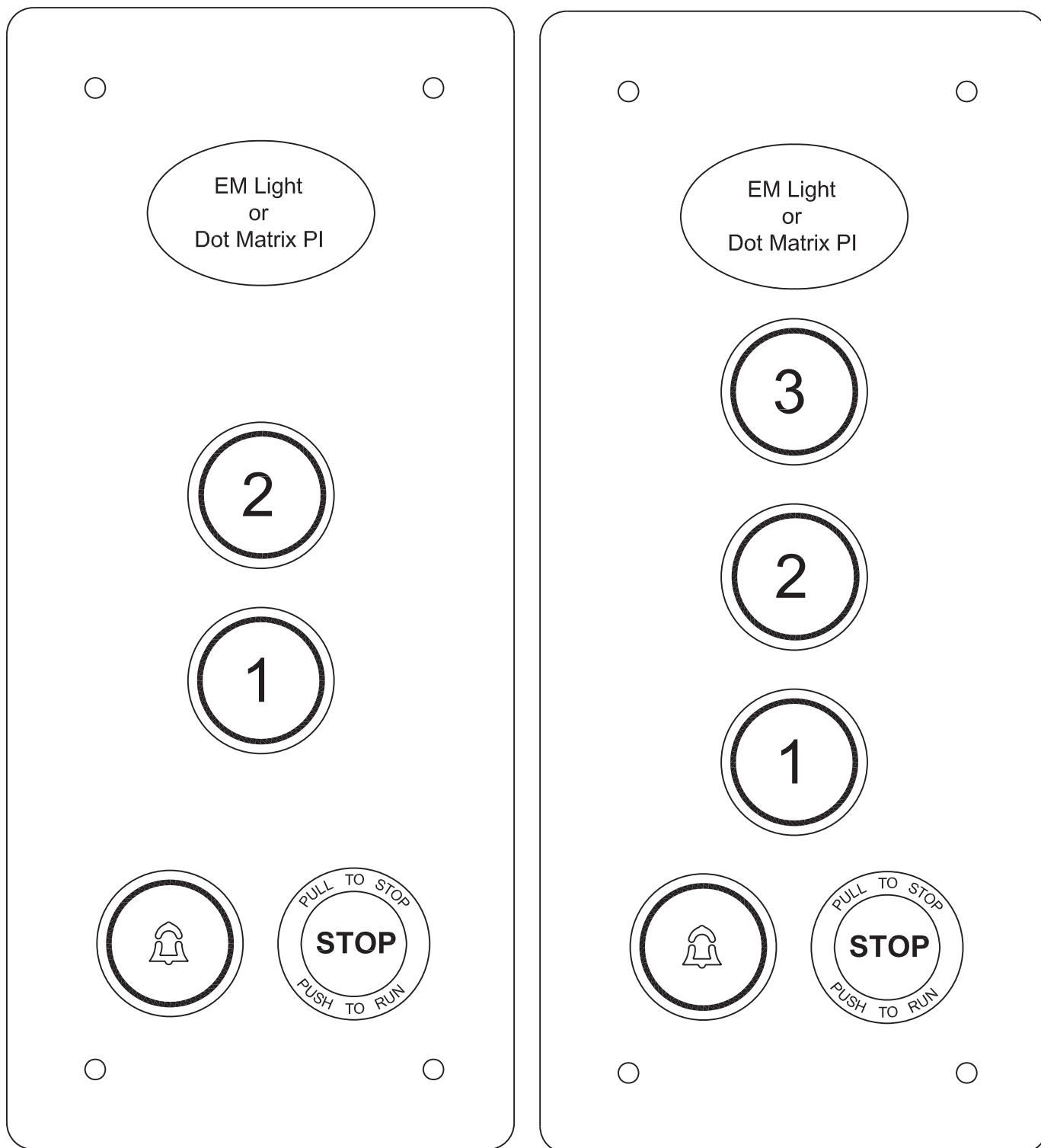
250 Hamilton Rd., Arlington Heights, IL 60005
Phone: (847)593-4900 Fax (847) 593-1394

SPEC.: COP ORG, REV. 3
DATE: 5-20-2008

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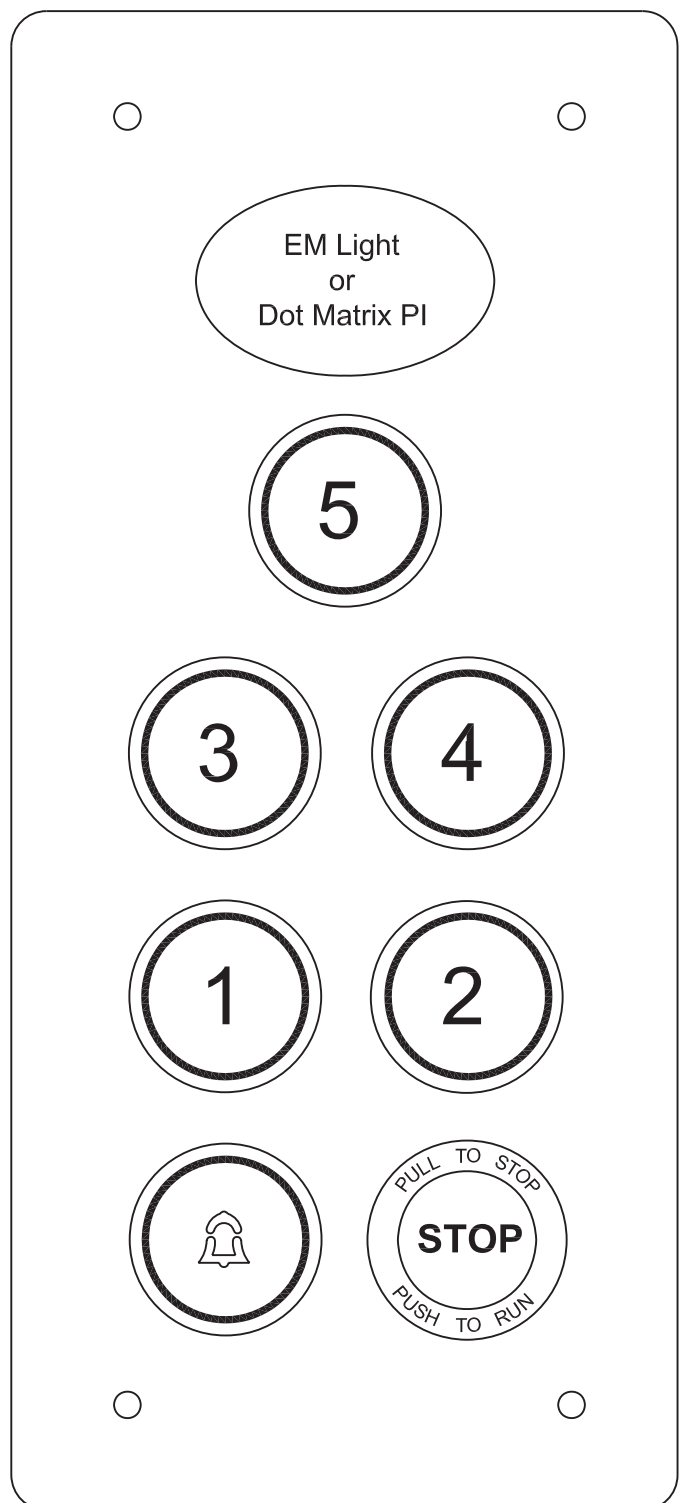
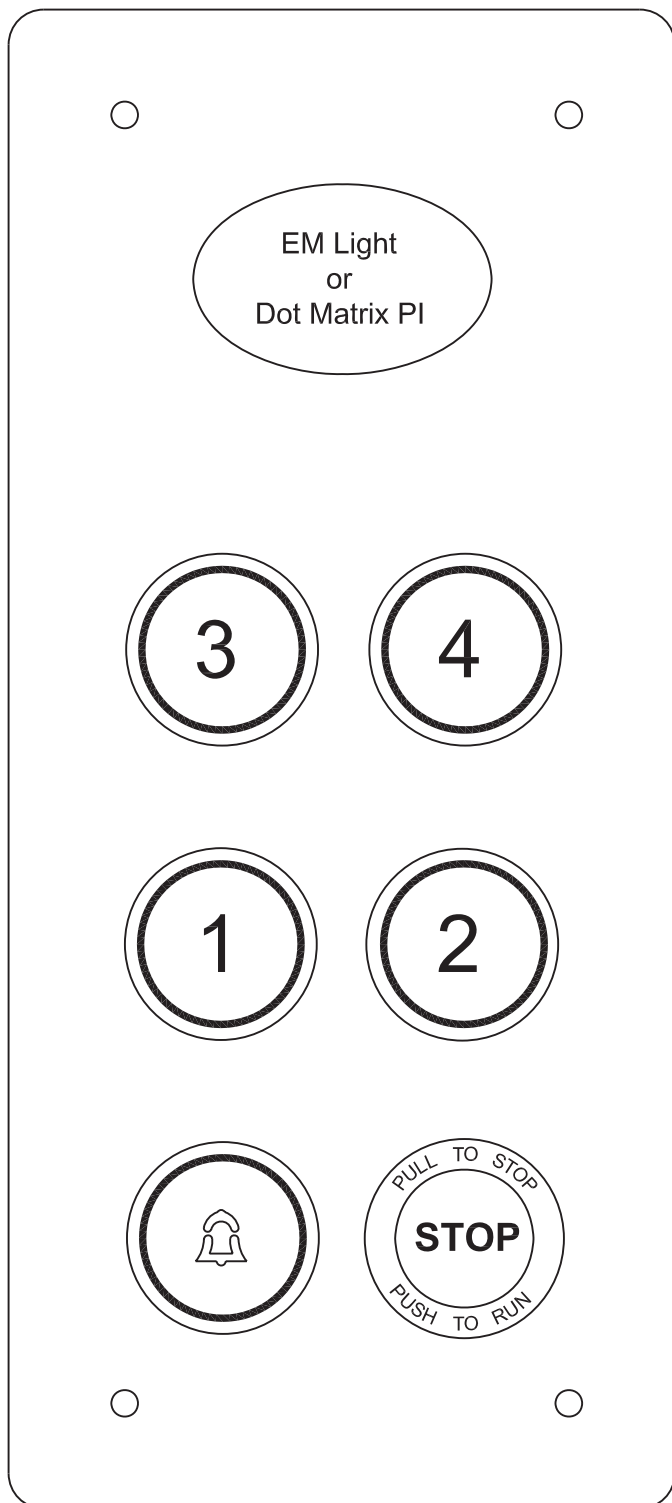
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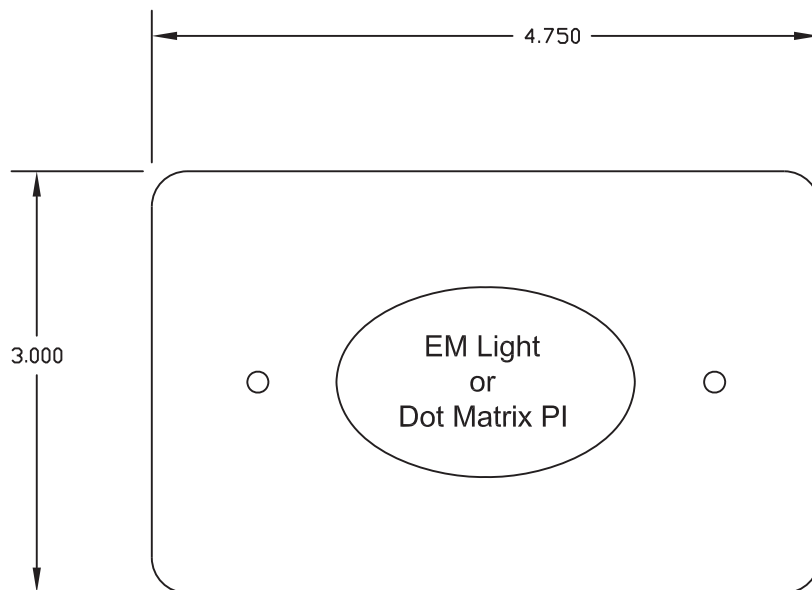
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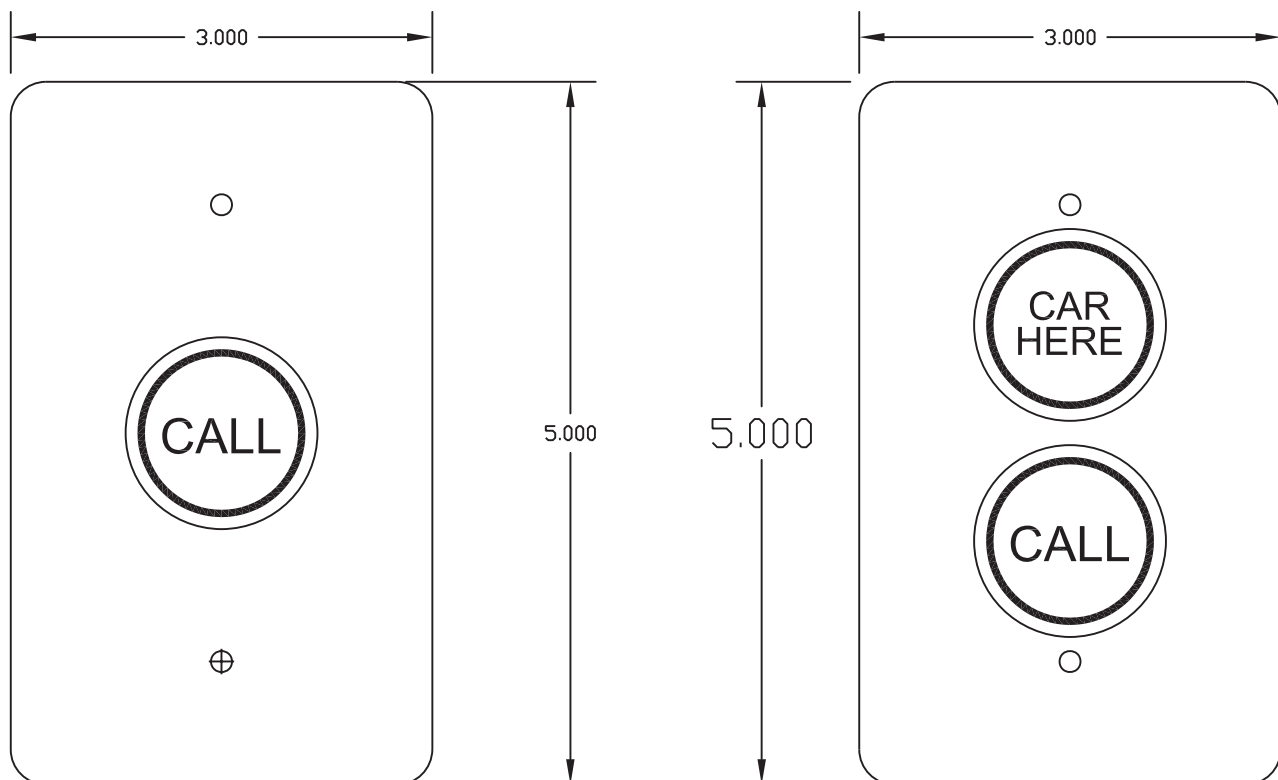
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AUXILARY PANEL



Porta Inc.

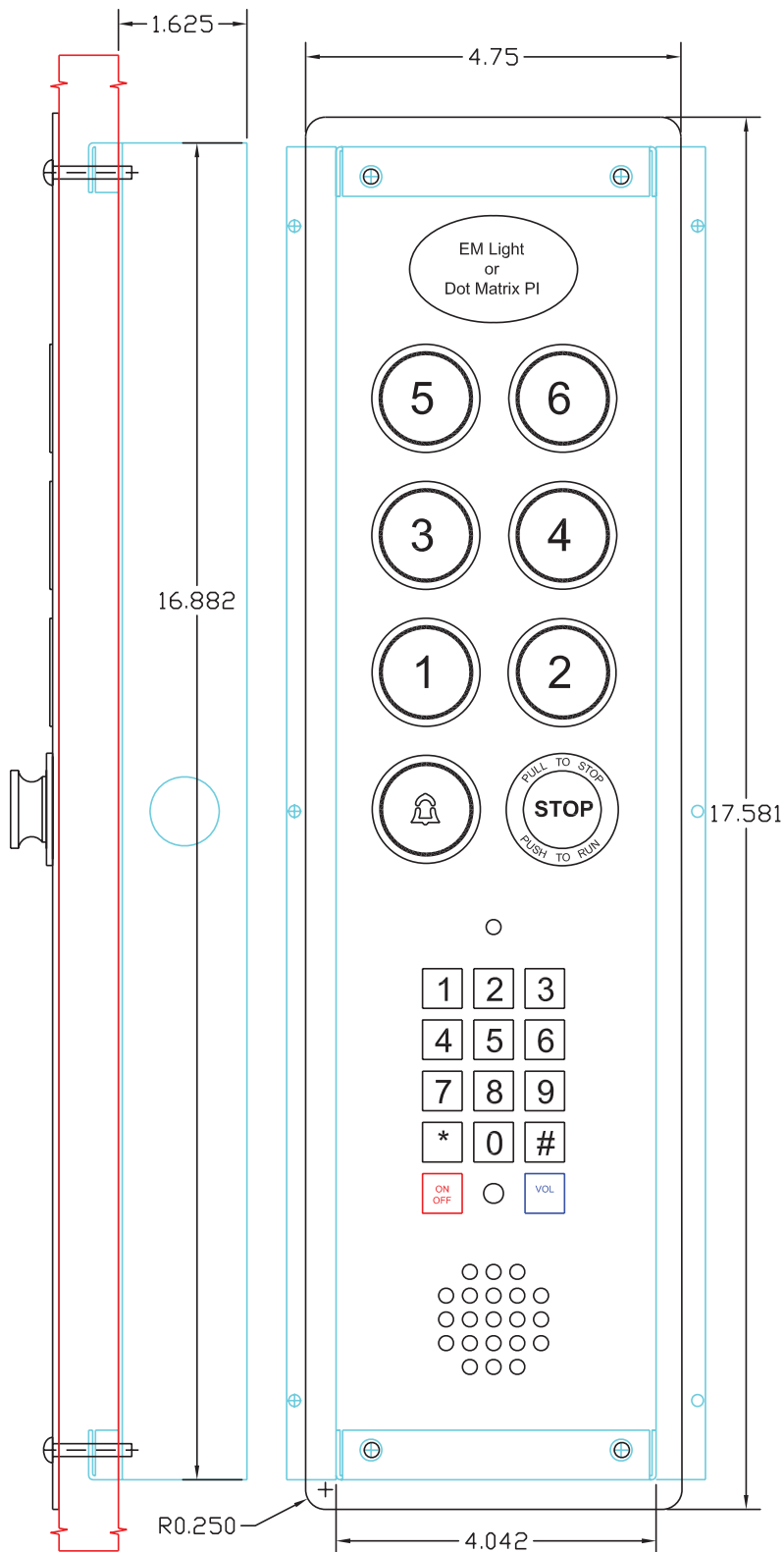
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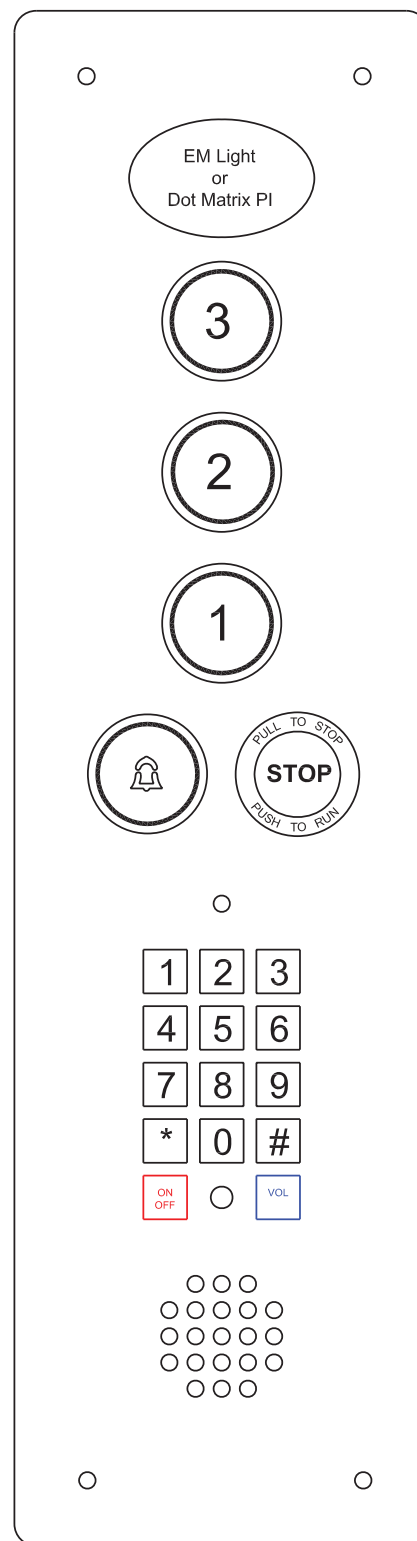
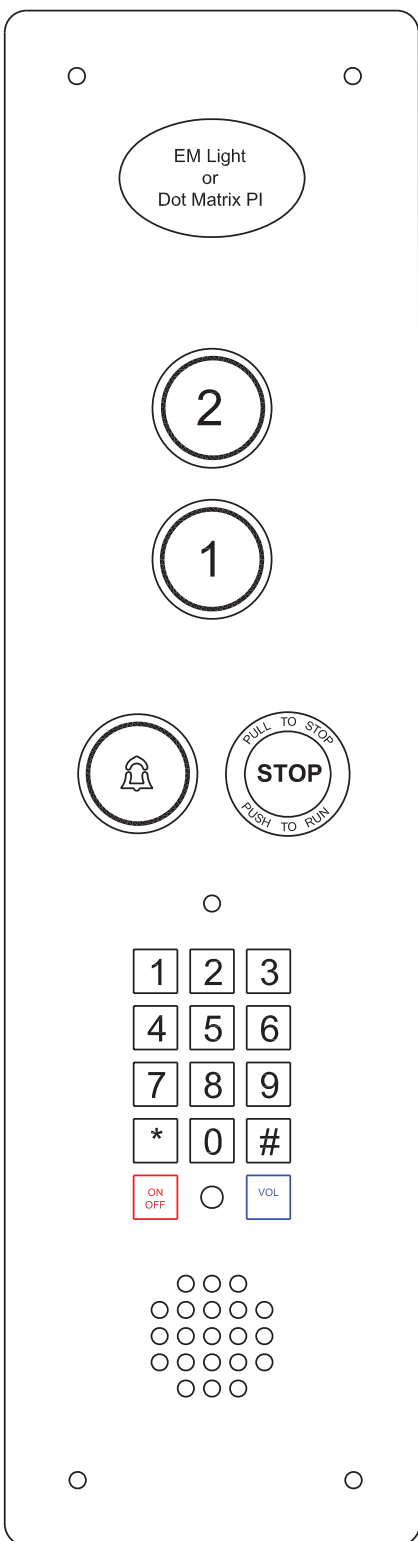
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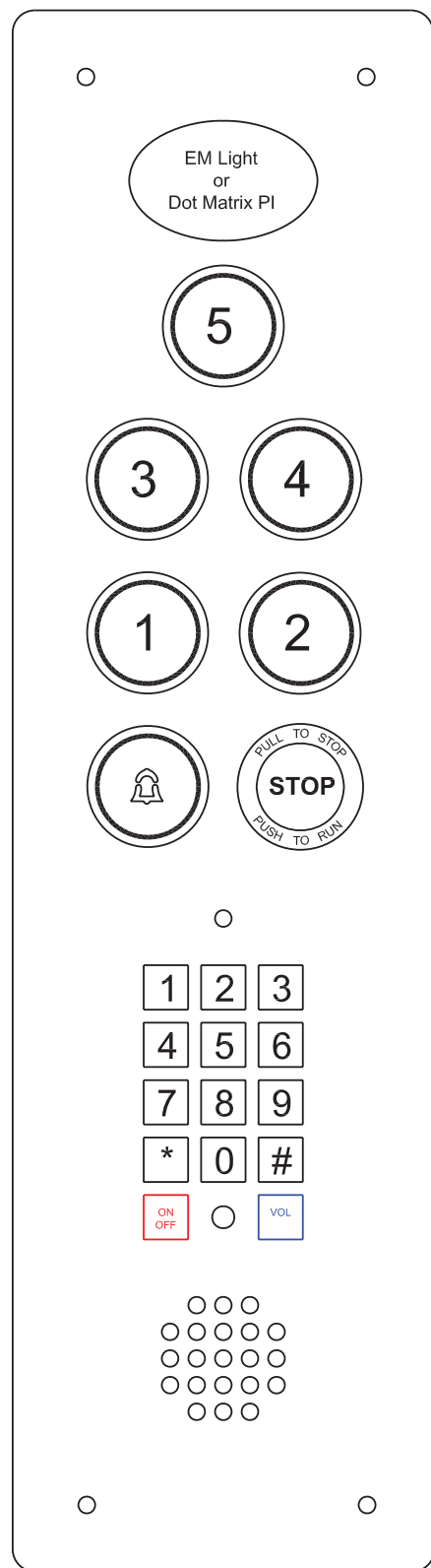
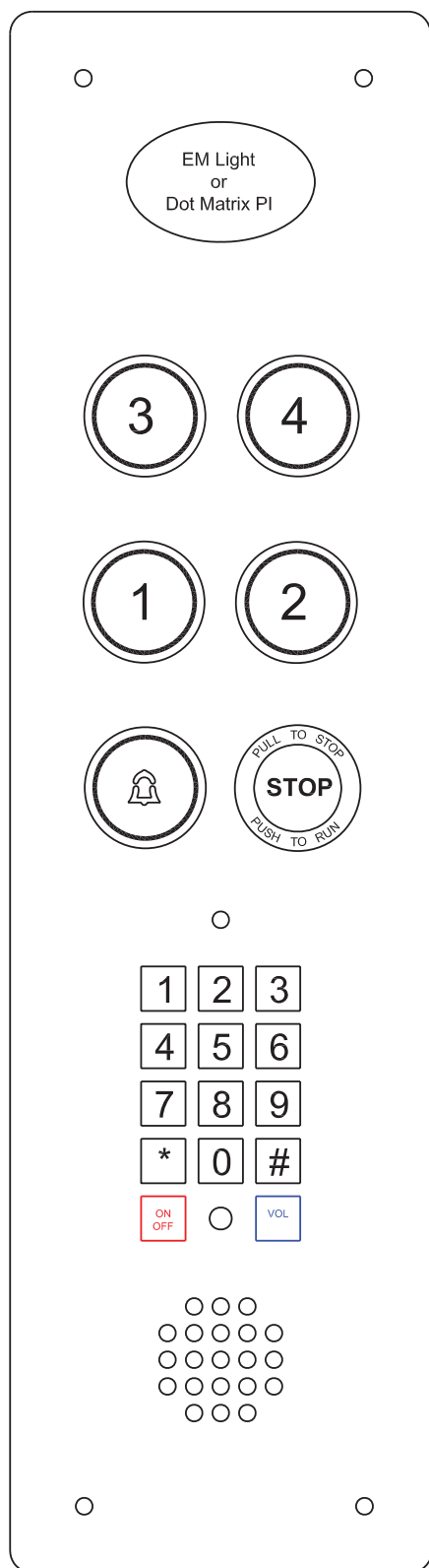
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ELEVATOR FIXTURES

CALL & ALARM BUTTONS

TERMINAL	WIRE COLOR	FUNCTION
1	BLK	LED (-)
2	RED	LED (+)
3	YEL	SW
4	GRN	SW

STOP SWITCH

	POSITION	
	RUN	STOP
BLK SWITCH BLOCK	CLOSED	OPEN
RED SWITCH BLOCK	OPEN	CLOSED

KEYED SWITCH

TERMINAL	COLOR	POSITION	
		ON	OFF
1	BLK	OPEN	CLOSED
2	RED	COM	COM
3	YEL	CLOSED	OPEN

HALL STATION CALL BUTTON

TERMINAL	FUNCTION
1	LED (-)
2	LED (+)
3	SW
4	SW

HALL STATION CAR HERE LIGHT

TERMINAL	FUNCTION
1	LED (-)
2	LED (+)



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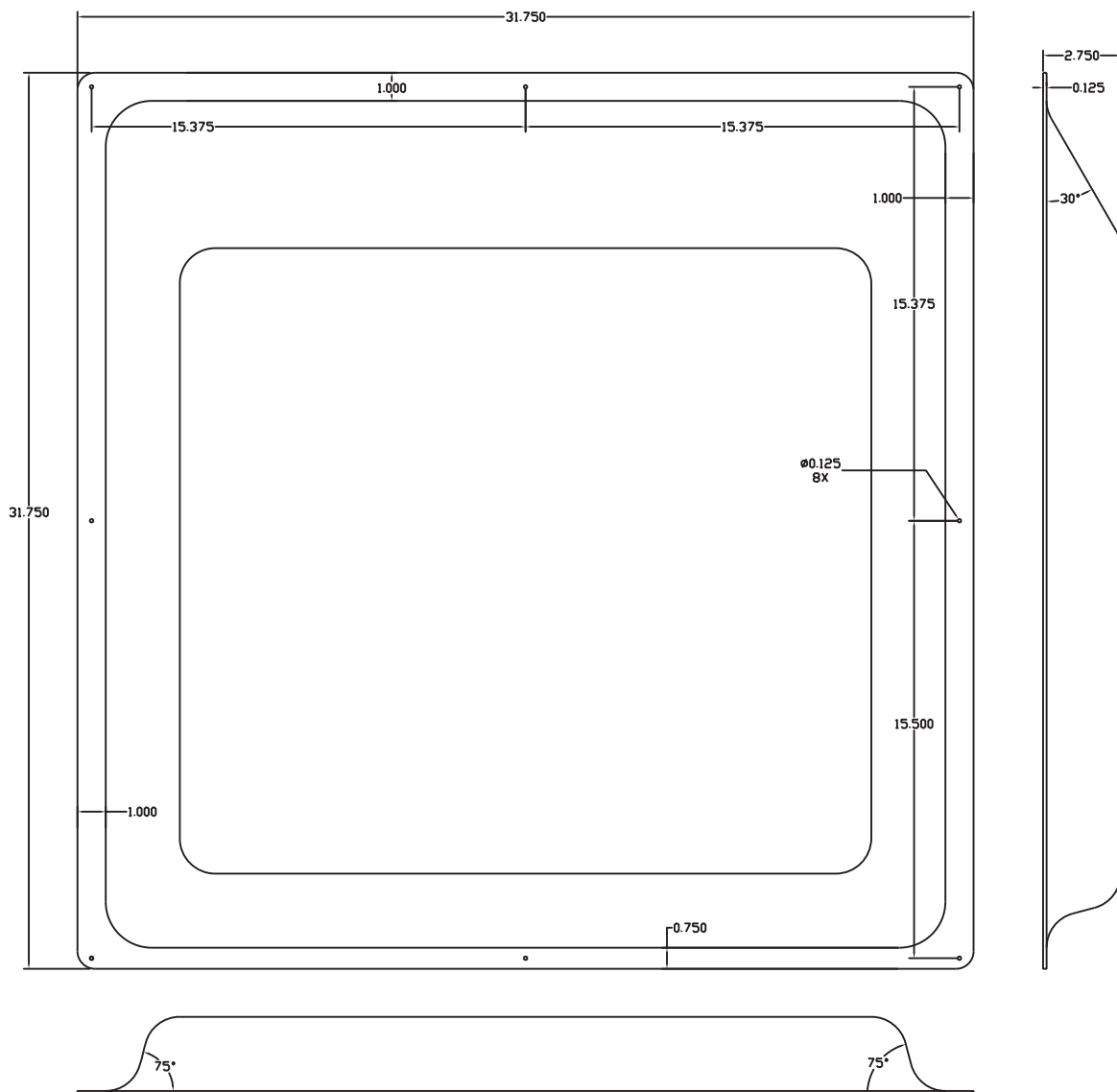
SPEC.: COP CONN DIAG.
DATE: 03-13-2015

MANUFACTURED BY:



SPACE GUARD

- Space Guard is intended as an additional means of reducing the gap between the hoistway swing door and the elevator shaft.
- 1/8" thick durable white ABS (paintable)
- Hardware is included: 8 - #8 x 3/4" S.S. pan head spanner screws
- Pre-drilled mounting holes for a fast professional installation.



Porta Inc.

250 Hamilton Rd., Arlington Heights, IL 60005
Phone: (847) 593-4900 Fax (847) 593-1394

Date: Aug. 2016

MANUFACTURED BY:

