



DESTINATION BASED DISPATCHING — FIXTURES & DISPLAYS



Motion Control Engineering®

A Kinotek Company®

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The Motion Advantage

With sales of more than 180,000 elevator controllers, Motion Control Engineering (MCE) earned its place as the world's largest and most successful independent control manufacturer. A distinction gained through nearly thirty years of innovation, performance and customization.

Destination Based Dispatching

A new paradigm for the way building elevator traffic is assigned.

The technology behind this system uses complex algorithms, but the passenger experience is quite simple: After selecting the desired floor on a touchscreen, passengers are directed to the elevator that will take them to their destination. It's just that simple.

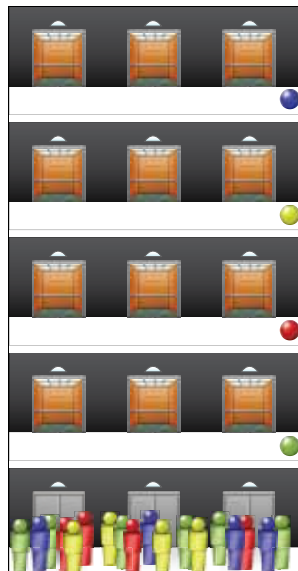
Destination based dispatching is intended to improve the efficiency of elevators in high traffic buildings. Better efficiency is realized by assigning passengers with like destinations to specific cars. This results in each elevator making fewer stops, saving passenger time and allowing elevator cars to move more passengers over a shorter run time. An additional pleasant effect of passenger-to-car assignment is reduced confusion and less competition at the elevator bank entrances.

Assigning passengers to cars requires a new set of elevator fixtures. This brochure will help building owners and consultants select the fixtures that best suit the unique environment they are creating. MCE has chosen to use touch screen and video display technology along with visually interesting hall lanterns. This allows our customers maximum flexibility to easily customize control panel design to match their environment and minimizes the dollars and time they spend to achieve their design goals.

We provide full ADA compatibility both visually and audibly. Our system is completely scalable; you can choose to use destination dispatching only in the lobby (lobby boost), on selected floors only, or throughout the building. If desired, our destination based system can revert to traditional assignment at the turn of a switch or through timed assignment.

MCE is part of Kinetek, a privately-held global manufacturing company with 28 facilities in North America, Europe and Asia. Kinetek companies hold market leading positions in elevator/escalator, commercial floor care, material handling/aerial lift, golf/utility vehicle, medical, renewable energy and commercial food equipment markets.

Traffic Handling Benefits



Traditional dispatching results in a high mix of destinations per car, requiring more stops and more time.



Destination based dispatching results in a low mix of destinations per car, requiring fewer stops and less time.

Destination Entry

Destination entry is the first step for the passenger

Entry Touch Screens

- MCE destination entry touch screens are wall mount units. Our smaller unit provides a 6.5 inch touch screen. The larger provides a 10.4 inch touch screen. Both provide a physical, Braille selection switch in compliance with ADA requirements.
- Screen visual elements – background, control appearance, and messaging – may be customized if desired.



10.4 inch applied mount

Touch Screens

Finish: #4 stainless steel



10.4 inch surface mount

Sequence

- Select your destination (A)
- Select the number of passengers in your group (optional screen) (B)
- Receive visual directions to your elevator car (C)

ADA

- Press the ADA button (D)
- Press the ADA button again when your floor is announced
- Follow the voice direction to your car and note the unique audible tone (the car will announce itself in turn and repeat the same unique tone)

Recommendations

- At least two destination entry screens are recommended for each floor using destination based dispatching.
- 10.4 inch units are recommended on lobby floors. 6.5 inch units are recommended for non-lobby floors.



(A) Pick the floor



(B) Pick the number of riders



(C) Note the assignment



(D) ADA button

Keypad Destination Entry

- MCE keypad destination entry fixtures provide a lower cost alternative to touch screen devices. In addition to a traditional 10-key floor selection set, the keypad provides a physical, Braille selection switch in compliance with ADA requirements.
- Screen visual elements – usage instructions and basic directions are provided by the keypad LCD screen.

Sequence

- Select your destination
- Press the Star key to enter (or wait a few moments for automatic entry)
- Receive visual directions to your elevator car



**ENTER
FLOOR**

CAR A

**SPECIAL
ACCESS MODE**

ADA

- Press the ADA button (A)
- Press the ADA button again when your floor is announced
- Follow the voice direction to your car and note the unique audible tone (the car will announce itself in turn and repeat the same unique tone)

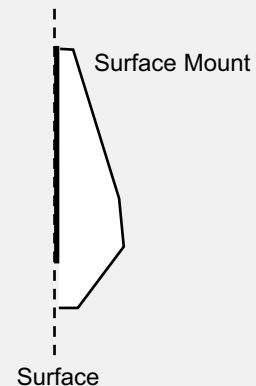
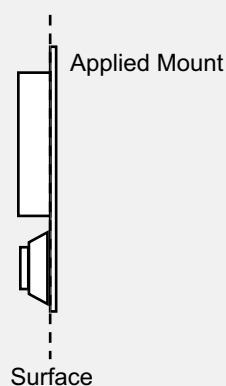
**SPECIAL
ACCESS MODE**

(A) ADA button

Mounting Options

MCE touch screens and the keypad may be mounted in "Applied Mount" or "Surface Mount" configurations.

- Applied mount means that the bulk of the touch screen or keypad behind the faceplate protrudes into the wall or mounting surface. An appropriately sized cut-out must be provided.
- Surface mount means that the metal work in which the touch screen or keypad is housed contains the entire unit. Only a small hole for the connection cable needs to be provided.



At the Car

5.7 inch Annunciator & PI Combo

- Car annunciator
- Destination floors display
- Messaging screen
- Landing arrival annunciator
- Car position indication
- Selectable passing chime output (requires optional speaker)

Finish

- #4 stainless steel

Mounting

- Applied mount only (cutout required)
See PI57 drawing

Recommendations

- One required per car entry on (lobby) destination entry floors



Car Annunciator Display



Destination Floors Display

Box Car Annunciator

- 2.5 inch characters
- ADAAG 4.10.4 compliant
- Car annunciator
- Direction indicator (Green up/Red down)
- Arrival gong

Finish choices

- #4 stainless steel

Mounting

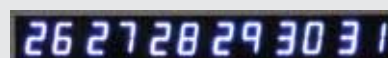
- Surface mount or applied mount

Recommendations

- Standard for non-lobby car entries
- Use with segmented destination display



Box Annunciator: Cube lights green for up and red for down direction, includes floor gong



Segmented destination display recommended if floor display desired

Flag Car Annunciator

- 2.5 inch characters
- ADAAG 4.10.4 compliant
- Car annunciator
- Direction indicator (Green up/Red down)
- Arrival gong

Finish choices

- #4 stainless steel

Mounting

- Surface mount

Recommendations

- Non-lobby car entries
- Use with segmented destination display



Car Annunciator and Hall Lantern:
Green arrow lights, up direction; Red arrow
lights, down direction

Pendant Car Annunciator

- 2.5 inch characters
- ADAAG 4.10.4 compliant
- Car annunciator
- Arrival gong

Finish choices

- #4 stainless steel

Mounting

- Surface mount or applied mount

Recommendations

- Non-lobby car entries
- Use with segmented destination display



Car Annunciator

In the Car

Cube Car Annunciator

- 2.0 inch characters
- ADAAG 4.10.4 compliant
- Car annunciator
- Direction indicator (Green up/Red down)
- Arrival gong

Finish choices

- #4 stainless steel

Mounting

- Surface mount

Recommendations

- Non-lobby car entries
- Use with segmented destination display



Cube lights green for up and red for down direction, includes floor gong



Segmented destination display recommended if floor display desired

Scrolling Indicators

- Floors assigned next run
- Next run direction
- Messaging-capable dot matrix or segmented display
- Recommended when destination floors not otherwise displayed
- Applied mount



Destination display with run direction indication, may also be used for messaging



Blue, green, or red character display

4.3 inch PI

- Destination indicator
- Messaging screen
- Landing arrival
- Car annunciator
- Position indicator
- Selectable passing chime output
- #4 stainless steel
- 2 required per car
- 8-ohm speaker output, requires external speaker (one speaker per car)
- Applied mount only. See PI43 drawing



Arrival/PI display (as shown)
Also displays destination floors

Vertical Destination Indicator

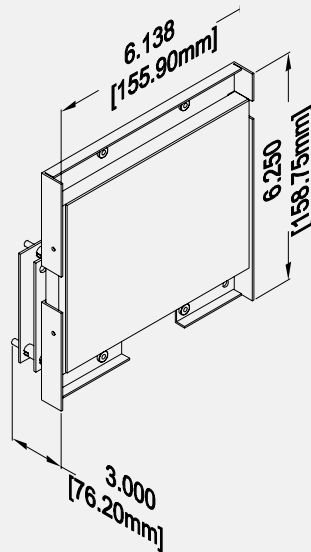
- Destination indicator
- High visibility, segmented displays
- 2 required per car
- Applied mount



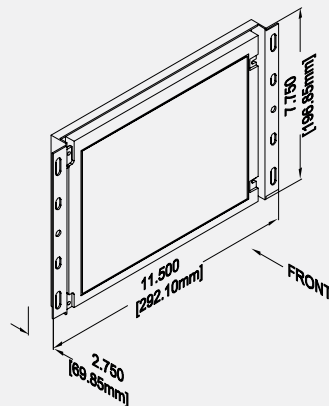
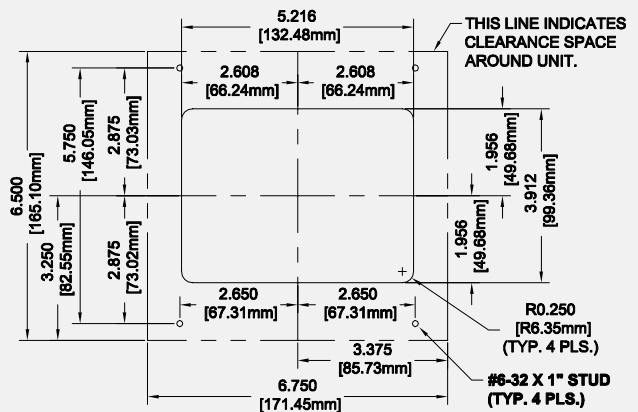
Blue, green, or red character display
Trailing dot indicates next floor.

6.5 and 10.4 inch Touch Screens, Applied Mount

- 256 colors
- Voice capable (WAV 16 kHz, mono)
- Audio + image limited to shared 25 MB (Type B)
- 80 x 80 x 70 x 60 viewing angle

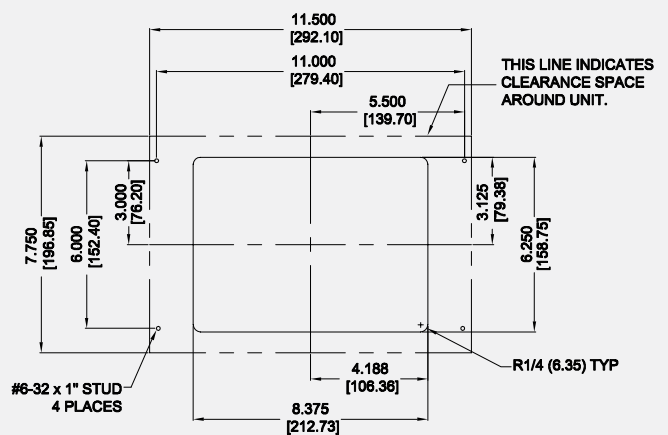


PANEL PREP



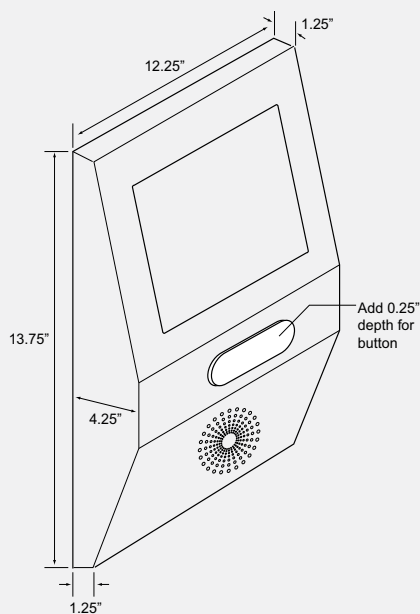
PANEL PREP

AS VIEWED FROM FRONT

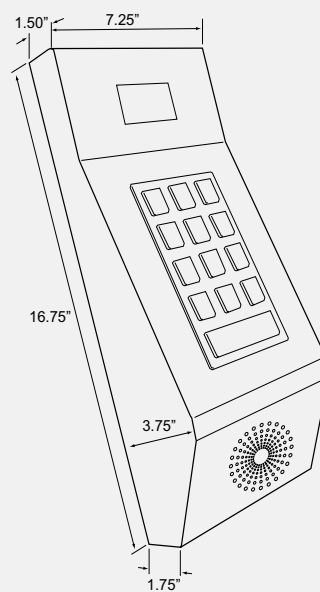


10.4 Touch Screen and Keypad Entry, Surface Mount

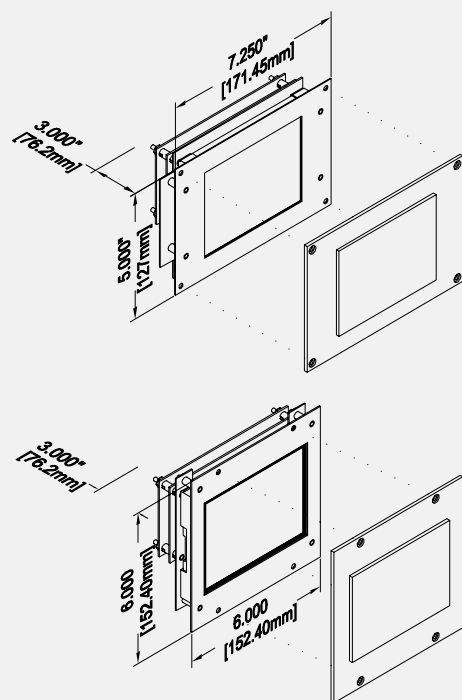
10.4 inch display



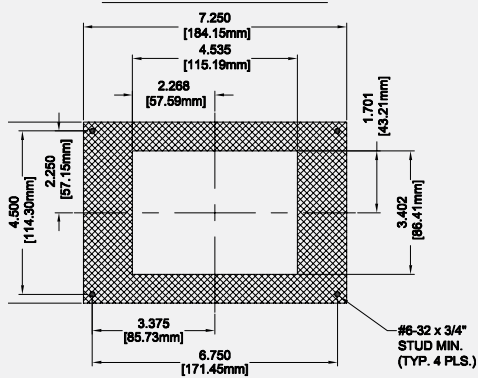
Keypad entry



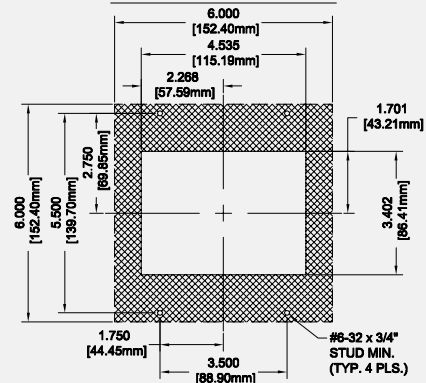
PI57 5.7 inch Annunciator PI Combo, Applied Mount



HORIZONTAL PANEL PREP AS VIEWED FROM FRONT



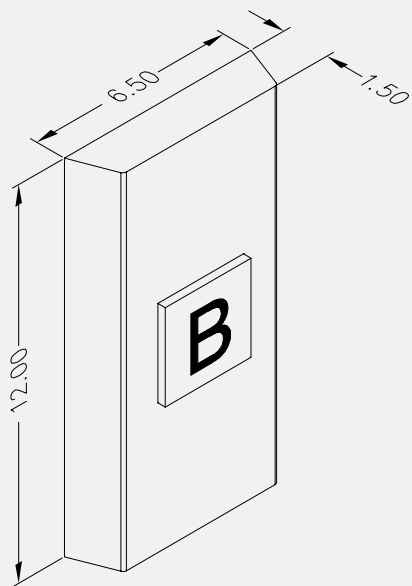
VERTICAL PANEL PREP AS VIEWED FROM FRONT



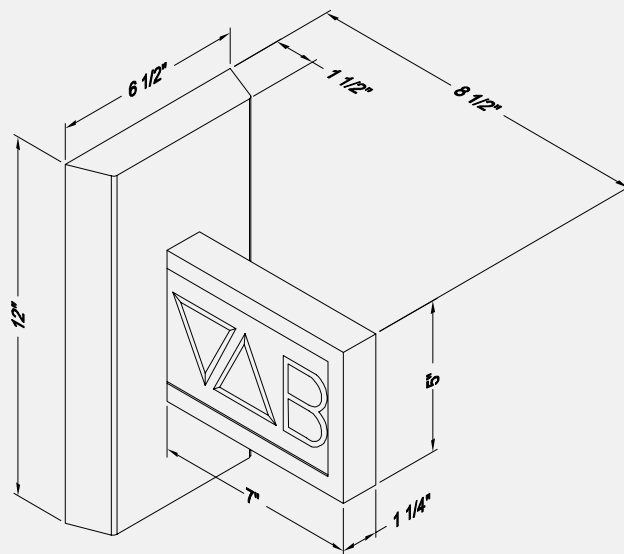
Specifications

Box, Surface Mount

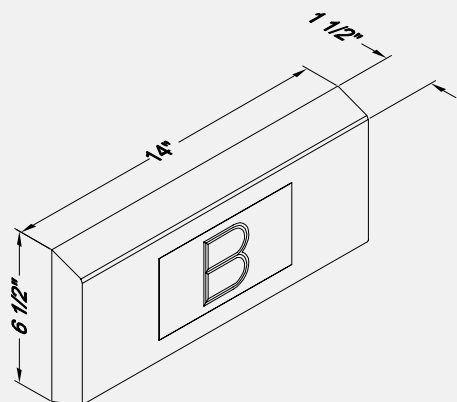
- Standard lens: add 0.125"



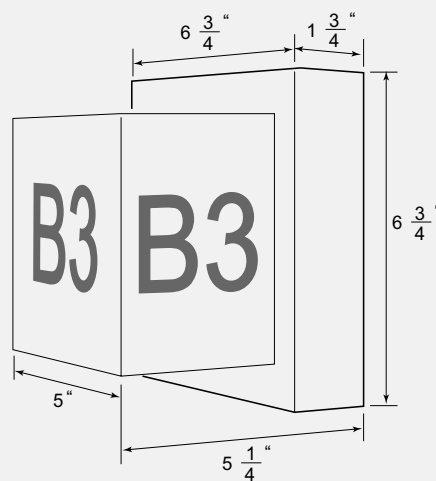
Flag, Surface Mount



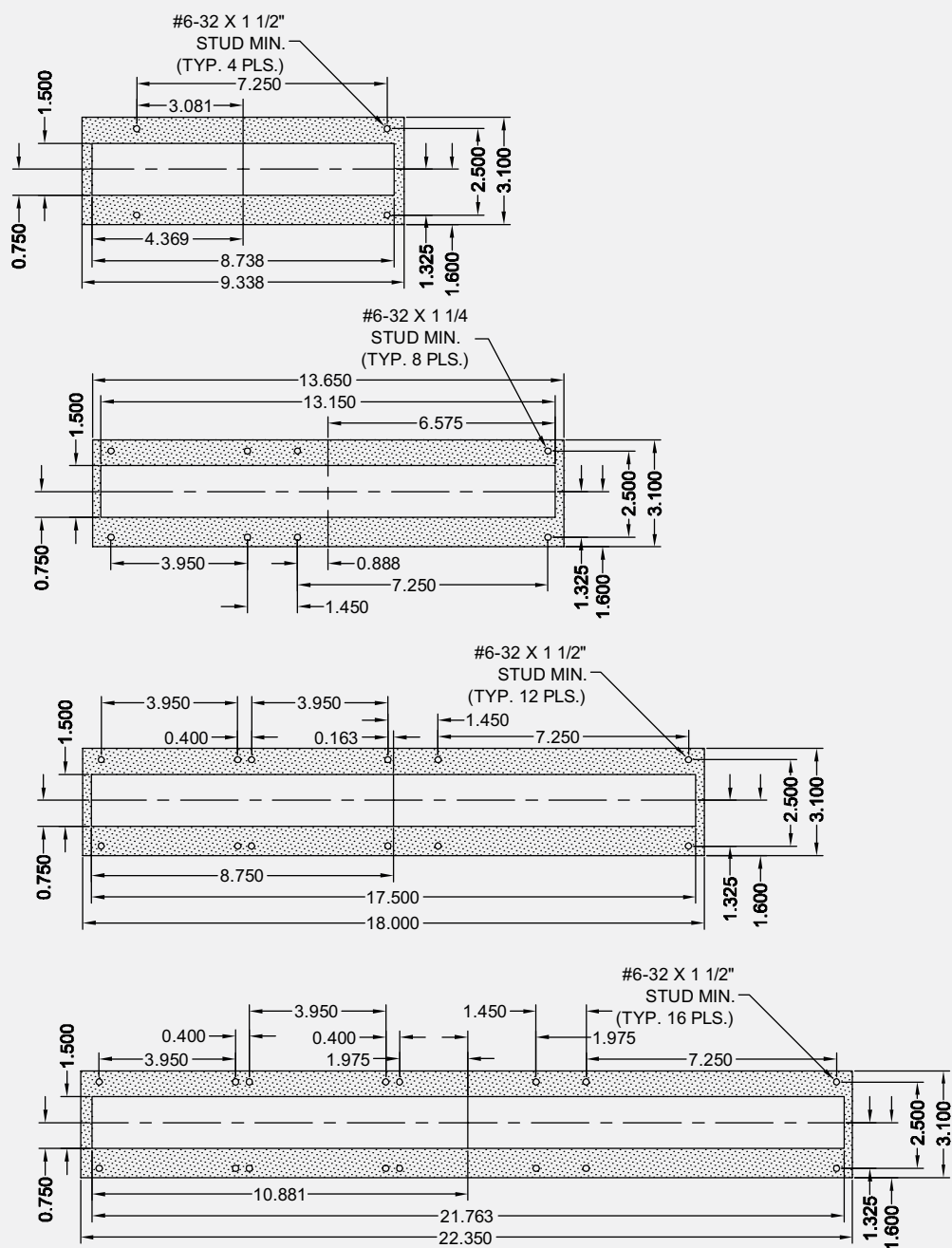
Pendant, Surface Mount



Cube, Surface Mount



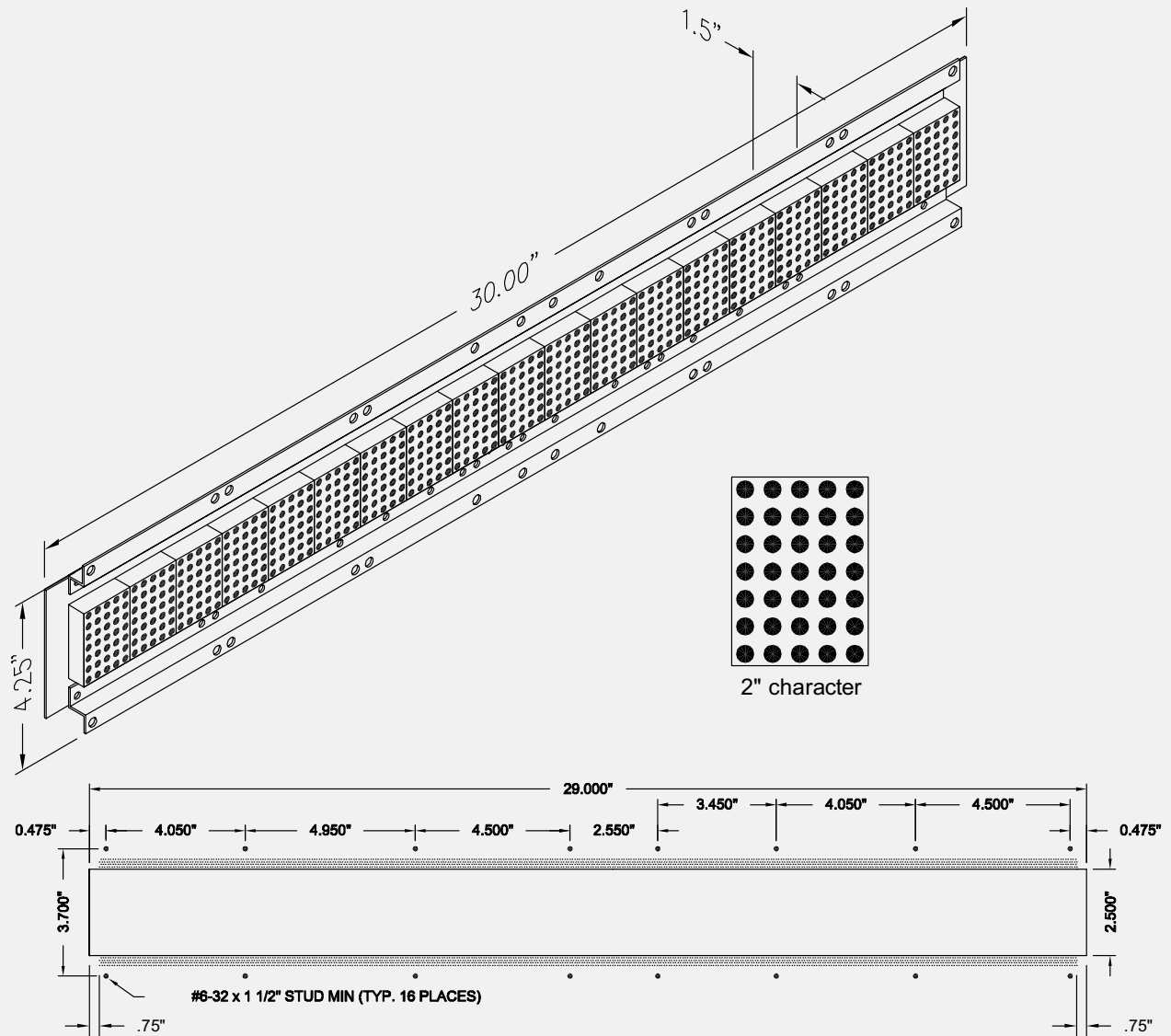
Horizontal Segmented Hall Destination Display, Applied Mount



PANEL PREP

ALLOW 1.75" DEPTH MIN.

Horizontal Dot Matrix Hall Destination Display and Messaging, Applied Mount



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