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Item # Semi-Flush Front Lighted Clocks, Semi-Flush Front Lighted Clocks



Semi-Flush Front Lighted Clocks

Semi-Flush mounted front lighted clocks are available in sizes from 24" to 48" diameter (17" to 41" viewing area). Front lighting is provided by an off white neon tube or by low voltage LED lighting located under the inside lip of the clock bezel.

Custom lighting colors and housing finishes are available on request.

Surface mounting adapters and custom mounting designs available.

All Semi-Flush Front Lighted Clocks are built to customer specifications including sizes, hand & dial marker styles, lighting, addition of optional items, etc. Contact Elderhorst Bells, Inc. for details.

EXTERIOR CLOCK SPECIFICATIONS - SEMI FLUSH FRONT LIGHTED STYLE CLOCK**PART 1 – GENERAL**

1.01 SUMMARY

A. Provide clock system consisting of _____ clock(s), _____ in diameter overall*, as shown on drawings, as specified, and as needed for a complete and proper installation.

* available from 24" to 48" overall diameter, (17" to 41" viewing area)

B. Coordinate clock system of this section with General Conditions and Supplementary Conditions.

1.02 SUBMITTALS

A. Submit shop drawings and wiring diagrams. Upon approval, General Contractor shall send to field or jobsite superintendent copy of final approved shop drawings and wiring diagrams.

B. Submit color sample – for exposed surfaces (if required)

1.03 QUALITY ASSURANCE

A. Use adequate number of skilled workmen who are thoroughly trained and experienced in the necessary crafts, and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this section.

B. Use materials which shall be free from defects impairing strength, durability, and appearance; shall be of best commercial quality for purpose required; and shall comply with the approved drawings.

C. Use manufacturer who has had ten (10) years of experience in the manufacture of the specified product.

1.04 WARRANTY

A. Warrant the clock system for one year after the date of delivery of product installed by others. Warranty is not in effect as a result of improper installation or wiring, lightning damages, vandalism, or improper servicing. Neon and transformer not warranted.

PART 2 – PRODUCTS

2.01 MANUFACTURER

A. Use the SEMI-FLUSH FRONT LIGHTED style clock as manufactured by Elderhorst Bells, Inc. 875 Gravel Pike, Palm, PA 18070, Phone: 800-810-7892, Fax: 215-679-3692

2.02 MATERIALS

A. Clock housing to be constructed of 1/8" (.125") thick aluminum with a ¼" (.250") thick polycarbonate protective crystal over the dial face and hands. All hardware is of stainless steel. Front lighting is provided by means of an off white neon (standard color) ring, or LED tubing located under the inside lip of the clock bezel.

Optional: Provide a 6" deep SURFACE MOUNTING ADAPTER for each clock. Adapter housing to be constructed of 1/8" (.125") thick aluminum. The internal structure of the housing is of minimum ¾" aluminum box tubing (1/8", .125" wall thickness). All elements are welded together for a rigid self supporting assembly. All hardware is of stainless steel.

B. Clock dial shall be white with black dial markings. (*contact Elderhorst Bells for custom dials*)
Clock dial markings are to be type EB-_____.

C. Clock hands to be provided for each clock and are to be cut from aluminum. The hub is to be machine bored for proper fit to the clock movement shaft. Balance rods or counterweights are to be affixed to the clock hands to properly balance the hands. Clock hands are to be type EB-_____.

D. One EB-106 Clock Movement for each clock is to be provided. The EB-106, impulse type clock drive movements feature all brass square cut spur gears, stainless steel shafts, and bronze bearings. The EB-106 clock movements are built in a maintenance free design. The movements are driven by a 120 Volt, 60 hz, high-torque motor which is activated by the impulse type clock controller at one minute intervals. The EB-106 clock movements are Listed to applicable U.S. and Canadian safety standards by Underwriters Laboratories.

2.03 ACCESSORIES

A. Provide an EB-200 series Clock Controller – this is a minute impulse type master-clock with a high degree of accuracy due to the quartz micro-processor time base. The unit incorporates a lithium battery backup for automatic time correction following power failure, and automatic daylight savings time correction. The controller is housed in a NEMA 4X surface wall mount enclosure. Field wiring diagrams are to be provided.

OPTIONAL ITEMS:

B. TEMPORA-DIGITAL Clock/Chime system – quartz based with lithium battery backup for automatic time correction following power failure. Automatic daylight savings time correction. The digital chime system allows for user programmable play of 1-4 bell peals, funeral tolls, Westminster Chime (or other hourly melody), Hour-strike, and a limited selection of included melodies. System includes an amplifier. The TEMPORA-DIGITAL system is housed in a steel rack mount type enclosure. (requires loudspeakers – see below)

_____ reflex sound projector loudspeaker horn(s) will be provided with 60 watt drivers, (4 recommended for uniform sound dispersion).

C. GPS- Global Positioning Satellite time synchronization system. System includes an antenna and receiver for automatic time correction from the GPS time signal. The GPS receiver is housed in a NEMA surface wall mount enclosure.

2.04 FABRICATION

A. Fabricate clock to size noted above. Install dial, clock movement, hands, and lighting into clock housing and test for proper operation with Clock controller.

B. Provide separate wiring for clock movement and for illumination.

2.05 FINISHES

A. Finish all aluminum surfaces exposed to front viewing. Clock housing and hands shall be caustic etched, primed with two heavy coats of primer, and finished with two heavy coats of industrial enamel, (black standard). All concealed metal to be of mill finish aluminum.

2.06 CAULKING

A. Clean and dry all surfaces to be caulked.

B. Apply silicon caulking with caulking gun, using nozzle of proper size to fit joint width.

PART 3 – EXECUTION

3.01 PROJECT SITE CONDITIONS

A. Verify that site conditions are suitable and accessible for delivery and installation.

B. Confirm that all preparatory work is in place in accordance with approved shop drawings prior to installation.

3.02 INSTALLATION

A. Use skilled and experienced installation craftsmen familiar with such work, and in accordance with manufacturer's instructions and approved shop drawings.

B. Coordinate with other trades as required to assure proper and adequate installation

C. Install clock controller in an accessible area.

D. Provide and install separate electrical circuits 120 vac, 60 hz for clock system and illumination, in accordance with local building and electrical codes.

3.03 CLEAN-UP

A. Clean all soiled and dirty areas, and touch up any scratches or abrasions.

B. Clean up all debris caused by work of this section, keeping the premises clean and neat at all times.

END OF SECTION