



## PRODUCT SPECIFICATIONS

The HLEX series Edge-Lit offers the style of traditional exits with added safety in hazardous environments. The HLEX exit is designed with a factory sealed hazardous rated enclosure to assure the safety in any hazardous atmosphere.

## WARRANTY

Any component that fails due to a manufacturing defect is guaranteed for five years with a separate five year prorated warranty on the battery. The warranty does not cover physical damage, abuse or instances of uncontrollable natural forces. See the full Mule Lighting warranty document for detailed information.

## PRODUCT SPECIFICATIONS

- Hazardous Location Exit rated IP65 for: Class I Division 2, Groups A, B, C & D - Class II Division 2, Groups F & G – Class III
- High efficiency red or green LEDs
- High clarity acrylic panels
- 180 minute emergency operation standard, 24hour recharge time
- Copper-free cast aluminum alloy housings with 1/2" NPT conduit hubs
- Optional self-diagnostics (SD)
- Suitable for wet and damp locations
- Suitable for coastal installations for marine outdoor use and tested for salt water and spray resistance
- Mirror panel supplied as a standard on all double faced signs
- Wall, pendant or end mount
- 120/277 volt dual primary, 60Hz (standard)
- Optional 220 thru 240 volt 50/60Hz (240T)
- Fully illuminated 6" characters with 3/4" stroke
- Field selectable directional chevrons included for all configurations
- Standard finish: Gray
- Compliant with Buy America requirements

## INSTALLATION

Internally housed components and battery eliminate the risk of damage during installation. Standard 1/2" NPT Conduit hubs provided for alternate mounting options.

## MADE IN THE USA

Made in the U.S.A. and is in full compliance with the American Recovery and Reinvestment Act of 2009 (ARRA) requirements and Buy American provisions.



## ORDERING INFORMATION

Series	Number of Faces	Power Source	Mounting	Options
HLEX-R = Red EXIT	1 = Single Face	LB = AC Only	WP = Wall/Pendant Mount	240T = 220-240V, 50/60Hz
HLEX-G = Green EXIT	2 = Double Face	WB = With Battery	EB = End Mount Bracket	EU = Green Running man legend SD <sup>1</sup> = Self-Diagnostics

NOTE 1: Available on with battery (WB) units only

EXAMPLE: HLEX-R-1-WB-EB-SD



## CONSTRUCTION

### Housing

The HLEX Edge-Lit exit is constructed of copper-free cast aluminum alloy housing with an epoxy powder coat finish. The fixture housing is designed to contain an explosion if hazardous vapors enter the enclosure and are ignited. The enclosure will cool and vent the product so that the atmosphere is not ignited.

### Panel

Constructed of high quality clear acrylic for maximum light output. Double face panels are supplied with a mirror insert. Stencil letters are 6" high with 3/4" stroke, with minimum of 100 ft viewing distance.

### Illumination

Illumination is accomplished utilizing high-intensity, long-life LEDs. LEDs are a maintenance-free solution, providing up to 100,000 hours of life.

## ELECTRICAL

### Input

120 or 277 volt, 60Hz standard  
 220 thru 240 volt, 50/60Hz (Option: 240T)

**Nickel Cadmium Battery – NiCad (With Battery Only)** Nickel cadmium batteries are maintenance-free with a life expectancy of 15 years. Nickel cadmium batteries offer high discharge rates and continue to perform in a vast temperature range from 0-40°C.

### Emergency

The HLEX Edge-Lit exit will operate for a minimum of 180 minutes during a loss of power with a 24 hour maximum recharge time for the battery.

### Brownout Circuit

Brownout circuit monitors the line voltage, as the line voltage sags and can no longer illuminate the exit sign, the emergency circuit will turn on to supply a portion or all the power to illuminate the sign for a minimum of 90mins until the line voltage is restored.

### Low Voltage Disconnect

When the battery's terminal voltage falls below predetermined levels, the low-voltage circuit disconnects the emergency lighting load. The disconnect remains in effect until normal power is restored, preventing deep battery discharge and improving the life of the battery. The disconnect will also automatically reconnect the load circuit once the battery voltage returns to a normal value after charging.

### Test Button

Our easily located test button allows for manual verification of proper operation of the transfer circuit and emergency operation.

## OPTIONS

### Self-Diagnostics (Option: SD)

The circuit continuously monitors the operating condition of the battery charging circuit and battery supply voltage. The purpose of this option is to provide visual signaling in response to a fault at the EXIT sign battery and/or battery charger. If a failure is detected, visual status will occur immediately via the CHARGER LED and/or the BATTERY FAULT LED. The LEDs will stay illuminated until the fault is corrected.

## CONFORMANCE TO CODES & STANDARDS

The HLEX Edge-Lit meets or exceeds the following: NEC requirements, NFPA 101, NFPA 70, and OSHA requirements. A Temperature Class (T-Rating)-T6 is standard.

### Class I Division 2

A location (1) in which volatile flammable liquids or flammable gases are handled, processed, or used, but in which the liquids, vapors or gases will normally be confined within closed containers or closed systems from which they can escape only in case of accidental rupture or breakdown of such containers or system, or in case of abnormal operation of equipments; or (2) in which ignitable concentrations of gases or vapors are normally prevented by positive mechanical ventilation and which might become hazardous through failure or abnormal operation of the ventilation equipments; or (3) that is adjacent to a Class I Division 1 location and to which ignitable concentration of gases or vapors might occasionally be communicated unless such communication is prevented by adequate positive pressure ventilation from a source of clean air and effective safeguards against ventilation failure are provided.

### Class II Division 2

A location where combustible dust is not normally in the air in quantities sufficient to produce explosive or ignitable mixtures, and dust accumulations are normally insufficient to interfere with the normal operation of electrical equipment or other apparatus, but combustible dust may be suspended in the air as a result of infrequent malfunctioning of handling or processing equipment and where combustible dust accumulations on, in or in the vicinity of, the electrical equipment or may be ignitable by abnormal operation or failure of electrical equipment.

### Class III

A location where ignitable fibers or flyings (due to their characteristics of the gas, vapor, or dust) are present. Class III is in conjunction with Division 1 and Division 2 specifications.

### Class I and Class II Groups

Groups A, B, C & D applications are atmospheres typically containing acetylene, hydrogen, manufactured gas, diethyl ether, ethylene, cyclopropane, gasoline, hexane, butane, naphtha, propane, acetone, toluene, and isoprene. Groups F & G applications are atmospheres typically containing carbon black, coal dust, coke dust, flour, starch, grain dust, fibers and flyings (due to the characteristics of the gas, vapor, or dust).

### Temperature Class

Temperature classes are used to designate the maximum operating temperatures on the surface of the equipment which should not exceed the ignition temperature of the specific gas or vapor to be encountered. The HLEX Edgelit Series has a T6 temperature class rating which rates the fixture up to 85°C (185°F).

### IP65 Rated

IP65 rating ensures that the product can be installed in outdoor applications where significant water or dust may come in contact with the fixture. IP65 rated fixtures are designed to perform in wet location applications where water spray from any direction may be possible

### Designed for Marine Use

The HLEX is designed for outdoor marine use. Fixture shall not show pitting, cracking or other evidence of corrosion resulting from contact with salt spray or fog from salt water. These fixtures will contain less than 0.4 percent copper. All fixtures are tested to ensure that water or moisture does not enter the compartment that houses wiring, devices or LEDs under any conditions except submersion.

