

DeLeon HD

Hazardous Locations



Catalog Number
Notes
Type

Description

The DeLeon HD Exit combines energy-saving LED technology with a durable enclosure suitable for hazardous locations. The DeLeon HD exit offers several levels of protection against the elements, including dust, dirt and water. The exits are designed for use in hostile environments that would otherwise damage ordinary sign components.

Optics

- Emergency Maximum illumination of the exit stencil face (213 to 215 average footcandle) is accomplished with long lasting, high output, direct view LEDs.

Electrical

- AC Only - 120/277 VAC dual voltage input with surge protection is standard on all models.
- Emergency Operation - Charging system is designed around an 8-bit microprocessor with software embedded diagnostic routine and temperature compensation. 120/277 VAC input, surge protection, brownout, AC lockout and low voltage disconnect, AC power indicator, charge status indicator features are standard.

Battery

- Maintenance-free, sealed lead calcium battery or nickel cadmium battery provides minimum 90 minutes of emergency power
- Lead calcium battery has typical life of up to 5 years with operating temperature range of 65°F (19°C) to 85°F (30°C).
- Nickel cadmium battery has typical life of up to 10 years with operating temperature range of 20°F (-7°C) to 95°F (35°C).

Mechanical

- Constructed of impact resistant, fiberglass reinforced polyester. Watertight housing color is gray with stainless steel corrosion resistant hardware and clear polycarbonate cover.
- Includes one-piece formed gasket which eliminates potential for seal failure and corrosion resistant hardware.
- Standard internal or external mounting feet provides installation flexibility.

Listings

- UL844 (see matrix on page 2):
Class 1, Division 2, Groups A, B, C, D
Class 2, Division 2, Groups F, G
Class 3
- Class 1, Zone 2, Groups IIA, IIB + H2 & IIC
- UL924
- NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
- IEC 61951-1 Life Testing (batteries)

Warranty

3-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx.

Actual performance may differ as a result of end-user environment and application.

Typical Applications

- Petroleum Refineries
- Ethanol Facilities
- Chemical Plants
- Water Treatment Plants
- Power Generation Plants
- Food Processing (Confectionary)
- Paper Mills
- Coal & Dust Storage
- Grain Elevators

Dimensions: Inches (millimeters) unless otherwise noted.

Height: 11.2 (284)
Width: 13.2 (335)
Depth: 6.6 (168)
Weight: 27 lbs. (12.2kg)

ORDERING INFORMATION

Example: LHD2E NC R NK

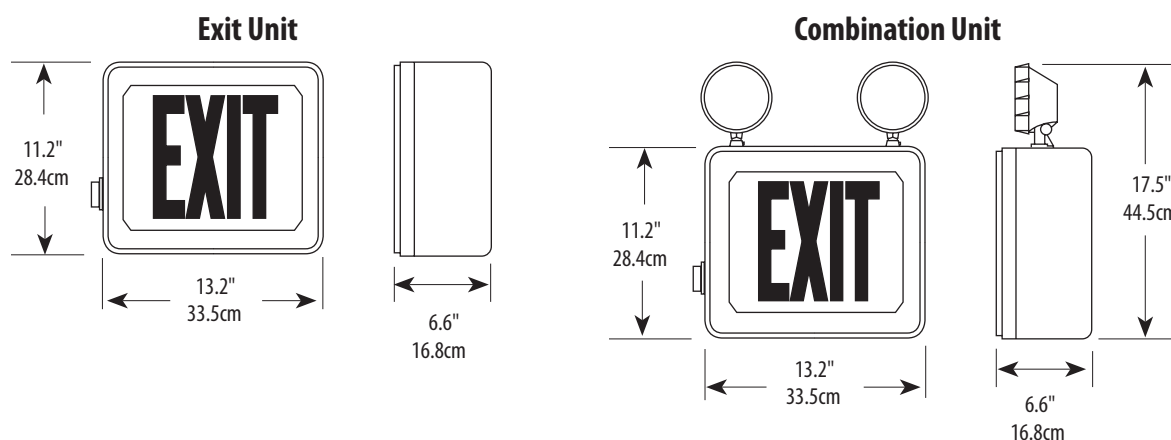
Series	Operation	Letter/Face Color	Optional heads for LHD2S & LHD2D ²	Options (Factory installed)
LHD2E DeLeon HD hazardous exit	AM AC only, multi-voltage 120/277VAC input ("LHD2E" only)	G Gray stencil face, green LEDs	NA1 Tungsten, 6 volt, 8 watt (1 lamp head) ²	BF Buzzer/flasher
LHD2S DeLeon HD hazardous combination top mounted single head exit	NC Nickel cadmium emergency, 120/277VAC input ("LHD2E" only)	R Gray stencil face, red LEDs	NA2 Tungsten, 6 volt, 8 watt (2 lamp heads) ²	BZ Buzzer
LHD2D DeLeon HD hazardous combination top mounted double head exit	18 Lead calcium emergency 6V, 18W head capacity (not available with "LHD2E") ¹		NB1 Tungsten, 6 volt, 18 watt (1 lamp head) ²	FA Fire alarm interface
LHD2R DeLeon HD hazardous remote lamp head exit	36 Lead calcium emergency 6V, 36W head capacity (not available with "LHD2E") ¹		NB2 Tungsten, 6 volt, 18 watt (2 lamp heads) ²	FL Flasher
	72 Lead calcium emergency 6V, 72W head capacity (not available with "LHD2E") ¹			NA Self test diagnostic with audible alarm ³
				NK Self test diagnostic ³
				TD Time delay (NA with "AM" & NC)

Accessories: Order as separate catalog number.
HPWG5 Wire guard

Notes

- 120/277VAC input
- Combined wattage of head (heads) can not exceed wattage of unit. Refer to selection in Step 2 for wattage of unit
- The diagnostic/charging platform with self-testing mode automatically runs a one-minute self-test every 30 days and a 30-minute test on the sixth and twelfth month. A one-minute or 90-minute test may be initiated via the Push To Test switch on the unit.

DIMENSIONAL DATA



OPERATIONAL DATA

Electrical Specifications

Product	Voltage	Hertz	Amperage	Power Factor
AC only units	120VAC	60 Hz	0.030A	PF = 0.90
	277VAC	60 Hz	0.015A	PF = 0.90
Emergency units (Exit only), Red or Green	120VAC	60 Hz	0.048A	PF = 0.90
	277VAC	60 Hz	0.023A	PF = 0.90
Emergency units (Combination Exit with Lamp Heads)	120VAC	60 Hz	0.160A	PF = 0.90
	277VAC	60 Hz	0.80A	PF = 0.90

Operating Temperature Codes for Hazardous Locations:

Package ¹	Voltage Range	Max Ambient Rating	Class 1, Division 2, Groups A, B, C & D	Class 2, Division 2, Groups F & G	Class 3	Class 1, Zone 2, Groups IIA, IIB + H2 & IIC
LHD2E 18W	120/277	30°C	T3	T3	T3	T3
LHD2E 36W	120/277	30°C	T3	T3	T3	T3
LHD2E 72W	120/277	30°C	T3	T3	T3	T3
LHD2R 18W	120/277	30°C	T3	T3	T3	T3
LHD2R 36W	120/277	30°C	T3	T3	T3	T3
LHD2R 72W	120/277	30°C	T3	T3	T3	T3

Notes

1 35°C with Nickel cadmium battery