

■ AC ONLY / EMERGENCY EXITS

PRODUCT OVERVIEW

The HZA1R Series LED Exit Sign utilizes energy-saving LED technology, with the added safety of an exit sign and emergency lighting combination, and a durable enclosure suitable for hazardous locations.

The HZA1R Series is UL listed for use in Class 1, Division 2 and Class 11, Division 2 areas. The HZA1R Series LED 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.

HOUSING

Constructed of impact resistant fiberglass reinforced polyester. Housing color is gray with stainless steel hardware and clear, polycarbonate cover. Housing is suitable for use in NEMA 4, 4x, 12 and 13 areas and in Class 1, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB H, & IIC and Class 11, Division 2, Groups F & G. Includes one-piece formed gasket and corrosion resistant hardware. Standard internal or external mounting feet provides installation flexibility.

ELECTRONICS

AC Only- 120/277 VAC dual voltage input with surge-protection. Emergency Operation- 120/277 VAC dual voltage input with surge-protected, solid-state circuitry provides for a reliable charging system. Charging system is complete with low voltage disconnect, AC lockout, brownout protection, AC indicator lamp and test switch.

ORDERING INFORMATION

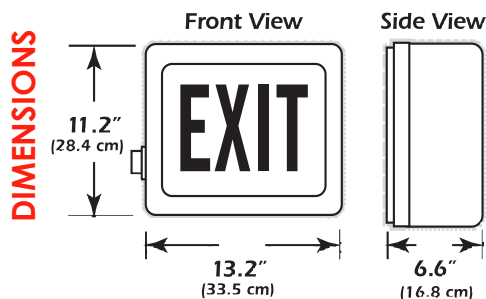
Series	Battery	# of Faces	Letter Color	Factory Install Options
<input type="text" value="HZA1R"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<ul style="list-style-type: none"> • HZA1R 	<ul style="list-style-type: none"> • NC (Ni-Cad) • LB (Less Battery) 	<ul style="list-style-type: none"> • One (single face) 	<ul style="list-style-type: none"> • R (Red) • G (Green) 	<ul style="list-style-type: none"> • ST (Self Test) • STA (Self Test w/Alarm) • TA (120 VAC Time Delay) • TB (277 VAC Time Delay) • T (Special Input Transformer)
<p>EXAMPLE: HZA1R-NC-1-R-ST</p>				

*NOTE: (1) Standard lamp head is 6 VDC, 6 watt Par 36 Z9K style lamp head. Consult factory for alternate lamp heads.
(2) Some option configurations may impact UL listing. Consult factory for specifics.

*Specify Voltage and Frequency



The TES-HZ Series LED Exit combines energy-saving LED technology, with the added safety of an exit sign and emergency lighting combination, and a durable enclosure suitable for hazardous location. The TES-HZ Series is UL listed for use in Class 1, Division 2 and Class 11, Division 2 areas. The HZ Series LED 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.





HZA1R

CLASS 1 & 2 DIVISION 2

ILLUMINATION

Direct view LEDs are driven to provide maximum face illumination (213 to 215 average foot lambert), yet are not driven to exceed the LED manufactures' recommended current-to-life cycle calculation. LED circuit will not force output degradation and noncompliance of face illumination standards for a 15 year period.

HOUSING

Impact resistant, fiberglass-reinforced polyester is suitable for NEMA 4, 4x, 12 and 13 areas. Housing color is gray with stainless steel hardware. Housing is suitable for use in NEMA 4, 4x, 12 and 13 areas, and in Class I, Division 2, Groups A, B, C & D, Zone 2, Groups IIA, IIB H & IIC, and Class 1, Division 2, Groups F & G. Water-tight enclosure includes a clear, polycarbonate cover. One-piece formed gasket eliminates potential for seal failure. Standard internal mounting or external mounting feet for installation flexibility.

ELECTRONICS

AC Only and Emergency Operation Dual voltage 120/277 VAC input with surge-protection is standard. Emergency Operation All components are located within the exit housing. An indicator light is located on the bottom of the housing to signify that AC utility is present. AC lockout prevents battery drain prior to the initial energizing of utility power The low voltage disconnect (LVD) feature will disconnect the battery prior to an unacceptable deep discharge, but not before the required 90 minute emergency operation. The brownout protection circuitry will automatically switch the unit into the emergency mode if the utility voltage sags below 20% of nominal. Battery charging circuitry is entirely solid-state, and of a constant current design. Battery recharge time after a complete discharge is less than the required UL 924 standard. Solid-state circuitry causes an instantaneous transfer to battery power if either the loss of AC utility, or a brownout condition is detected. When line voltage is present and stabilized, the transfer circuitry switches back to normal operation and begins recharging the battery. The transfer circuitry can be tested via a momentary test switch located on the bottom of the housing.

BATTERY

A maintenance free, sealed nickel cadmium battery is standard. Construction is of the sintered plate design and the battery assembly is equipped with a quick connect plug assembly for easy installation. Standard sustained emergency operation is for 90 minutes with the LED illumination source providing full light output. The suggested operating temperature range of 20°F (-7°C) to 95°F (35°C) should provide a service life of 12 years.

AUTOMATIC DIAGNOSTIC TESTER

The ST option conducts automatic and manual tests, and indicates real time status of the lamp, battery and charger via tri-color indicator lamp. Automatic tests include: Systems analysis D3 every 10 seconds, with actual load tests performed for a 3 minute duration every 30 days, and for a 30 minute duration every 180 days. Manual tests include a 3, 30 and 90 minute battery discharge and lamp illumination tests.

PERFORMANCE

Input power requirements at 120 VAC AC Only Red and Green - 9.5 watts max Emergency Only Red and Green - 11 watts, .90 power factor.

CODE & STANDARDS COMPLIANCE

The HZA1R Series meets or exceeds all performance standards as required by UL924, NFPA70, NFPA 101, NEC and OSHA.



(SPECIFICATIONS SUBJECT TO
CHANGE WITHOUT NOTICE.)