

## Desoto HR

Hazardous Locations



Catalog Number	
Notes	Type

### Description

These hazardous location lighting units are ideal for use in hazardous locations where explosive materials may be present. Additionally, the DeSoto HR Series is suitable for use in extreme hazardous locations.

### Optics

- Illumination is accomplished with halogen incandescent or compact fluorescent lamps protected with a heat resistant globe.

### Electronics

- Choice of medim base incandescent, 6V or 12V halogen or compact fluorescent lamps.
- AC Only - medium base incandescent versions exclusively 120VAC. Compact fluorescent versions 120V or 277V.
- Emergency Operation - powered by the DeSoto HZ Series emergency unit.

### Battery

- Maintenance-free, sealed lead calcium (60 watt capacity) battery for 12 volt operation.
- 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).
- Halogen lamps operate only during power outages.

### Mechanical

- Copper-free cast aluminum enclosure is designed to withstand the pressure of explosions caused by internal arc without propagating them into the hazardous environment.
- Enclosure has a corrosion resistant, epoxy powder coat finish and stainless steel hardware.

### Listings

- UL844 (see matrix on page 3):  
Class 1, Division 1 & 2, Groups C, D  
Class 2, Division 1 & 2, Groups E, F, G  
Class 3
- Class 1, Zone 1 & 2, Groups IIA, IIB
- UL924
- NFPA 70, NFPA 101, NEC, BOCA, OSHA and IBC illumination standards
- UL1598 - Wet Locations, NEMA 3, 4, 4X (DSHRCT60 rated for NEMA 7CD & 9EFG)

### Warranty

3-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_Conditions.aspx](http://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
- Power Generation Plants
- Ethanol Facilities
- Coal & Dust Storage
- Chemical Plants
- Storage Areas
- Water Treatment Plants
- Manufacturing plants

### Dimensions: Inches (millimeters) unless otherwise noted.

See Dimensional Data, page 2.  
Weight: 15 lbs. (6.8 kg)

## ORDERING INFORMATION

Example: DSHR P 12 12

Series	Mounting		Voltage			Lamp type		
DSHR	P	Pendant mount	AC Voltage Only	AC	AC input only <sup>1</sup>	AC Only	IC	Medium base incadescent socket screw type shell lamp holder 60W to 150W
	C	Ceiling mount		A1	120V AC <sup>2</sup>		P13	AC only, 13W compact fluorescent
				A2	277V AC <sup>2</sup>		P26	AC only, two 13W compact fluorescent
	W	Wall bracket mount	Blank	P7	Lamp type for operation only with DeSoto HZ DSHZP14N <sup>3</sup>	AC/Emergency Operation Only	P7	7W compact fluorescent for operation with DeSoto HZ DSHZP14N explosion proof emergency battery unit
			DC Voltage Only	6	6V DC <sup>4</sup>	Emergency Only	7	6VDC, 7W halogen
				12	12V DC <sup>5</sup>		10	6VDC, 10W halogen
						12	6 or 12VDC, 12W halogen	

### Accessories: Order as separate catalog number.

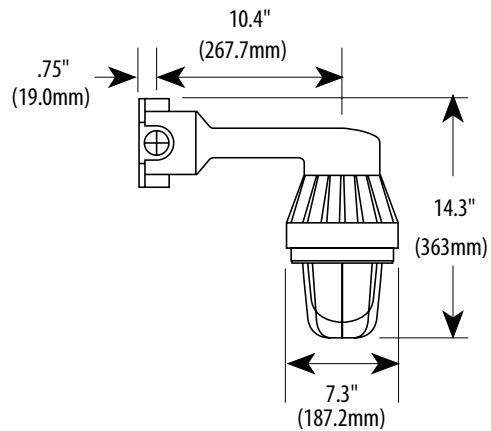
HPOB3	Explosion proof conduit hub
HPSEA	Swivel elbow arm
HPSDR1	Straight dome reflector <sup>7</sup>
HPAR1	Angle dome reflector; 30° <sup>7</sup>

### Notes

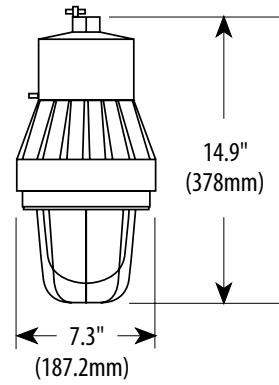
- 1 For IC lamp type only
- 2 For P13 or P26 lamp type only
- 3 P7 lamp type only
- 4 7, 10, 12 lamp type only
- 5 12 lamp type only
- 6 60 lamp type only
- 7 Not available with CT60

## DIMENSIONAL DATA

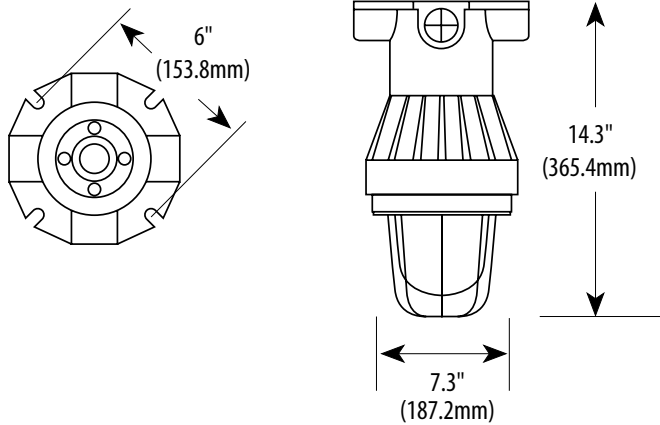
**DSHRW1212**



**DSHRPAC1C**



**DSHRC612**



## OPERATIONAL DATA

## Operating Temperature Codes for Hazardous Locations:

Package	Voltage Range	Max Ambient Range	Class 1 Division 1 & 2 Groups C, D	Class 2 Division 1&2 Groups E, F, G
DSHR 60 <sup>1</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 75 <sup>1</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 100 <sup>1</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 100 <sup>2</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 150 <sup>2</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 100 <sup>3</sup>	120	40°C	T6 <sup>7</sup>	T5 <sup>7</sup>
DSHR 150 <sup>3</sup>	120	40°C	T6 <sup>7</sup>	T5 <sup>7</sup>
DSHR 150 <sup>3</sup>	120	40°C	T6 <sup>7</sup>	T5 <sup>7</sup>
DSHR 13 <sup>4</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 2-13 <sup>5</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>
DSHR 2-13 <sup>5</sup>	120	40°C	T6 <sup>6</sup>	T5 <sup>6</sup>

## Notes

- 1 INC A-19 Lamp type medium base
- 2 INC A-21 Lamp type medium base
- 3 INC A-23 Lamp type medium base
- 4 P13 = 1-13 W PL-13 CFL lamp base
- 5 P26 = 2- PL-13W CFL lamp base
- 6 75° C Supply wire
- 7 90° C Supply wire

## Lamp Operation

Step 4 Lamp	AC Operation	Emergency Operation
IC, P13 or P26	AC input	AC input
P7	AC input	DC with DSHZP14N
7 or 10	N/A	6 VDC
12	N/A	6 VDC or 12 VDC