



# Hazardous Locations

## Application

Bodine fluorescent emergency ballasts for hazardous location fixtures work in conjunction with an AC ballast to convert fixtures into unobtrusive emergency lighting in hazardous environments.

## Operation

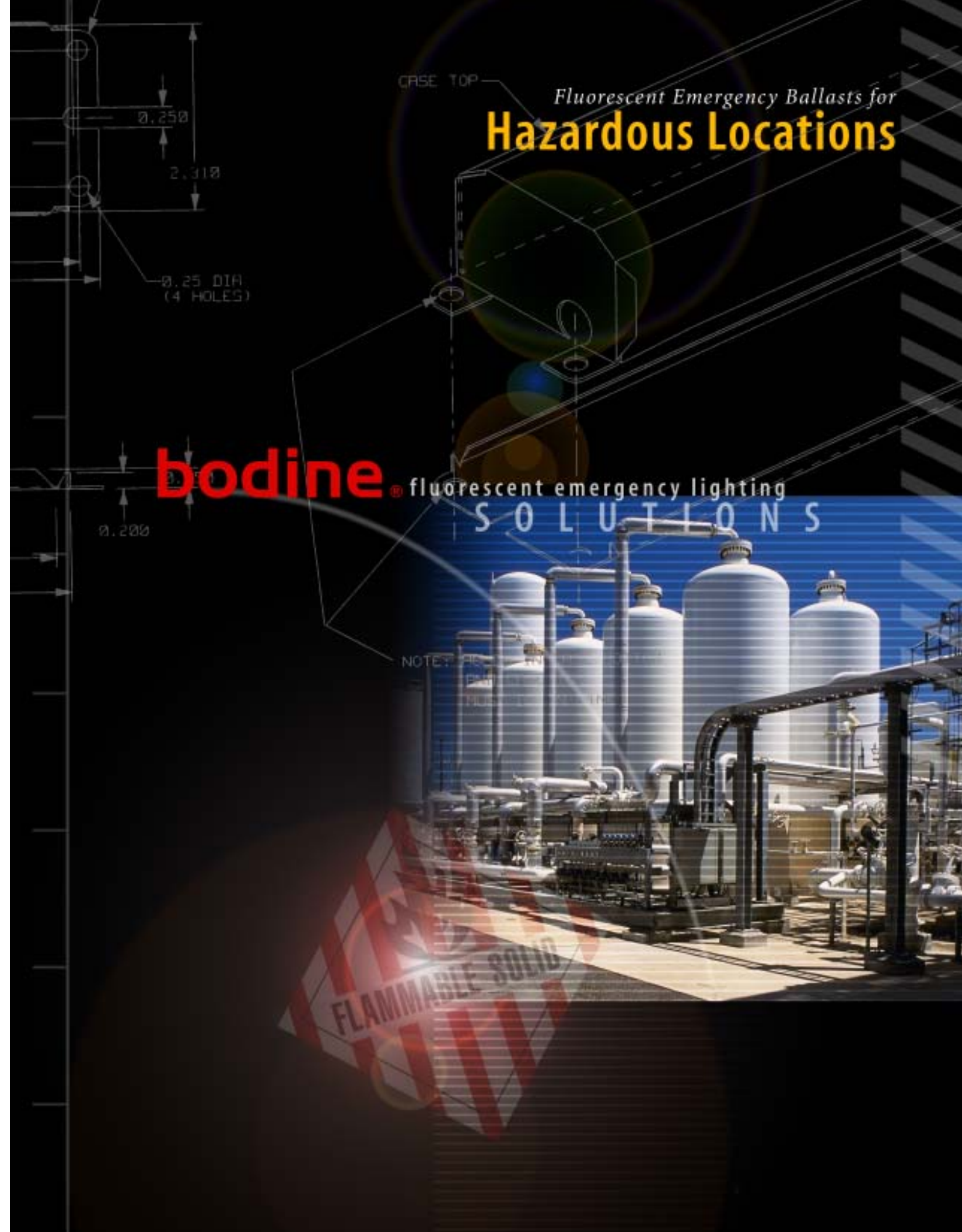
When AC power fails, Bodine's ballasts immediately switch into emergency mode, providing emergency lighting for a minimum of 90 minutes.

## Warranty

B65 fluorescent emergency ballasts (B65, B65-CAN, BHD650, BHD650-CAN, B65U, BHD65U) are warranted for three full years from the date of purchase. B213H fluorescent emergency ballasts (B213H, BHD213) are warranted for two full years from the date of purchase. This warranty covers only properly installed Bodine emergency ballasts used under normal conditions. For the warranty period, Bodine will, at its option, repair or replace without charge a defective unit, provided it is returned to the factory transportation prepaid and our inspection determines it to be defective under the terms of the warranty. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other charges; nor does it apply to any equipment of another manufacturer used in conjunction with the emergency ballasts.

## About the Manufacturer

Since 1962 the Bodine Company, Inc., has responded to advancements in lamp/ballast technologies by developing a complete line of emergency lighting solutions for a variety of lighting applications. Products are sold through a nationwide network of manufacturers' representatives and electrical distributors for field installation or directly to lighting fixture manufacturers for factory installation only. The Bodine Company is an employee-owned organization. All manufacturing, engineering and sales facilities are based in Collierville, Tennessee. The Bodine Company is a member of the Illuminating Engineering Society of North America (IESNA) and the National Electrical Manufacturers Association (NEMA).





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**Facilities** such as oil refineries, paint booths and textile mills are considered hazardous locations. Flammable and explosive gases, dust, liquids and other materials are common to the manufacturing processes in these types of facilities. Therefore, special consideration must be given to the emergency lighting systems installed.

*Bodine B65 and B213H series fluorescent emergency ballasts are specifically designed for hazardous location environments. They contain hermetically sealed relays to eliminate the “arcs and sparks” of ignition sources.*

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These ballasts are **UL Component Recognized for factory installation only** and are suitable for use in Class I, Division 2 fixtures. (See *Hazardous Locations*, page 3).



## Testing

Bodine B65 and B213H series fluorescent emergency ballasts are **UL Component Recognized** for installation into hazardous location fixtures. However, to ensure that a fluorescent emergency ballast – any fluorescent emergency ballast – and its host fixture *together* meet the rigorous standards imposed for hazardous locations, further testing – in addition to Component Recognition – is required. The emergency ballast and fixture must be submitted to UL as a complete unit. UL then determines acceptability of each unit on a case-by-case basis.

## Fluorescent Emergency Ballasts for Hazardous Locations

<b>B65</b>	The B65 operates one 17-215 W (2'-8') or two 17-40 W (2'-4') T8, T10 or T12 lamps or one (4-pin) compact. Produces 600-700 lumens initial light output.
<b>B65-CAN</b>	<i>CSA-Certified, 120/347 VAC unit.</i> The B65-CAN operates one 17-215 W (2'-8') or two 17-40 W (2'-4') T8, T10 or T12 lamps or one (4-pin) compact. Produces 600-700 lumens initial light output.
<b>BHD650</b>	<i>Suitable for damp location fixtures as well.</i> The BHD650 operates one 17-215 W (2'-8') or two 17-40 W (2'-4') T8, T10 or T12 lamps or one (4-pin) compact. It produces 600-700 lumens initial light output.
<b>BHD650-CAN</b>	<i>CSA-Certified, 120/347 VAC unit suitable for damp location fixtures.</i> The BHD650-CAN operates one 17-215 W (2'-8') or two 17-40 W (2'-4') T8, T10 or T12 lamps or one (4-pin) compact. Produces 600-700 lumens initial light output.
<b>B65U</b>	<i>Universal input for international &amp; special voltage requirements (120-277 VAC, 50/60 Hz).</i> The B65U operates one 17-215 W (2'-8') or two 17-40 W (2'-4') T8, T9, T10 or T12 lamps; one 18-40 W (4-pin) long compact; one 13-42 W (4-pin) compact; or two 13-26 W (4-pin) compacts. Produces 300-700 lumens initial light output.
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<b>B213H</b>	The B213H operates one (2-pin) 5-13 W twin-tube or 9-13 W quad compact. Produces 200-625 lumens initial light output.
<b>BHD213</b>	<i>Suitable for damp location fixtures.</i> The BHD213 operates one (2-pin) 5-13 W twin-tube or 9-13 W quad compact. Produces 200-625 lumens initial light output.

### Class I, Division 2 Hazardous Locations as defined by the National Electrical Code - Ref. NEC® 2002; 500.5(B)(2)

A Class I, Division 2 location is 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 systems or in case of abnormal operation of equipment, 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 ventilating equipment, or
- (3) That is adjacent to a Class I, Division 1 location, and to which ignitable concentrations 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.



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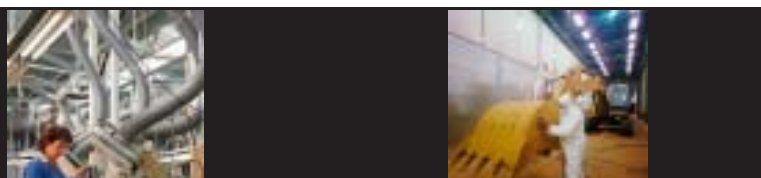
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