

LOW VOLTAGE BUTTON/MINIATURE RECESSED – FREQUENTLY ASKED QUESTIONS

1. Are these fixtures U.L. listed?

Yes, they are U.L. & C.U.L. listed. You can find listed products at www.ul.com.

2. What are the main features of these miniature low voltage fixtures?

FEATURE	HR- 86 <i>Button Light</i>	HR- 88 <i>Button Light</i>	HR-1135, 1136, 1137 <i>MR11 Mini's</i>	HR-1138, 1139 <i>Mini-Flush Lights</i>
Lamping	BP-20Bi-Pin 12V 20W Xenon	JC-20Bi-Pin 12V 20W Halogen	MR11 12V 20W-35W	JC-20 Bi-Pin 12V 20W Halogen
Lamp Included	Yes	Yes	No	Yes
Transformer Required	Remote Class II	Remote Class II	Remote Class II	Remote Class II
Mounting Options	Surface or Recessed	Surface or Recessed	Recessed	Recessed

3. In what types of applications would you recommend using these Low Voltage fixtures?

They are ideal for shelving, cabinets and displays.

4. Can any of these fixtures be mounted in a drywall ceiling?

No. They are designed for use as cabinet style lights.

5. Please explain the mounting options for the Button Lights.

Each button light comes with a shallow back cover or “housing”. When used as a recessed fixture, you will not need the back cover. The cutout hole size is 2-3/8" (a pop-out template is included). If installed as a surface mounted fixture, you will need the decorative back cover.

6. What transformer can I use with these fixtures?

All of the LOW VOLT BUTTON / MINIATURE RECESSED units are UL listed as requiring a Class II transformer. We offer a plug in or a hard wired model.

7. What is a Class II transformer?

A Class II transformer is inherently limited to not more than 60 watts. It is a low energy device and considered intrinsically safe. Secondary wiring from a Class II transformer does not require conduit and clamp wiring techniques.

8. Can I order a frosted lens for the Button Lights?

Yes - LENS-45-FR.

9. Can I use a UV lens with the Button Lights?

No – our UV lenses are only available in the standard MR16 and MR11 sizes.

10. What is the length of the socket lead wire that comes with the Button Lights?

The length of the lead wire is 72". It may be spliced to additional wire for longer length. However heavier gauge wires should be used to avoid voltage drop (see table from question 15).

11. How many Button Light fixtures will I require on 6’ run under the cabinet?

Generally, from an 18" height, a Button Light (or any 20W mini fixture) will provide sufficient light for 20" – 24" of space. So a 6’ run will require 3 fixtures.

12. Do I need to order a housing (can) for the MR11 or Mini Flush Lights?

No - they each have a built-in housing as part of the fixture.

13. Are the HR-1138 and HR-1139 available with a clear glass cover?

No - just frosted.

14. In a low voltage situation (12V) like a motor home or a boat, would I require a transformer for my fixtures?

Most RV's and boats operate under 12V. Transformers are not necessary.

15. I am concerned with a voltage drop in my application. Do you have any guidelines on the subject?

To minimize voltage drop or reduced light output, the transformer should be located as close to the fixture as possible. A drop of up to 5% is generally acceptable. The chart below details a guideline to keep the drop below 5%.

LAMP WATTAGE

WIRE SIZE	35W	50W	75W
18 gauge	8'	8'	6'
16 gauge	12'	12'	10'
14 gauge	16'	16'	14'
12 gauge	20'	20'	18'