



**HOOSIER CRANE**  
SERVICE COMPANY

**1-800-509-6131**

**hoosiercrane.com**

## Overhead Crane Warning Equipment Requirements

Our experts at Hoosier Crane get asked a lot of questions about warning equipment for top running overhead cranes by our customers.

*"Does my crane need a horn on it?"*

*"Do we need a horn and a warning light, or just one?"*

*"Why did my new crane get written up for not having a warning device?"*

*"What standards govern warning devices on bridge cranes?"*

*"Does the horn need to be continuously on while in operation?"*

The purpose of this document is to answer these questions and establish best practices for overhead crane warning equipment.

**The short answer to these questions is that you are required to have either an audible warning device or a visual warning device when your crane has a radio remote control.**

In some states it is not required for pendant operated overhead cranes, but is recommended. Please consult you local jurisdiction or contact us to help you determine specific region requirements. When deciding on a warning device take in consideration your operating environment. If your crane is in a loud environment where hearing protection or environmental noise would make a horn or siren not be noticed, a light may be a better choice. Conversely if your shop is full of blinking lights on machines that everyone ignores, a horn would be a safer choice.

As always the decision should be one of maximizing safety which will protect your bottom line in the long run.

The following are the supporting standards for this conclusion:

**ASME B30.11 states the requirement for a warning device but does not specify what type or how it should be used.**

ASME B30.11 SECTION 11-1.11 WARNING DEVICES: "On cab- and remote-operated cranes or carriers, an audible or visual warning means shall be provided."

**OSHA 1910.179 Overhead and gantry Cranes**, does address the requirement for a warning device. This requirement is vague at best. "1910.179(i) Warning device; except for floor-operated cranes a gong or other effective warning signal shall be provided for each crane equipped with a power traveling mechanism." (Note: Floor Operated Cranes are defined as Pendant Operated)

**The current ASME B30.2 – 2011 states the following requirements:**

SECTION 2-1.15: WARNING DEVICES OR MEANS FOR A CRANE WITH A POWER TRAVELING MECHANISM

2-1.15.1 Cab- and Remote-Operated Cranes

(a) **A warning device shall be provided.**

(b) Refer to para. 2-3.1.7(e) for operation of the device.

2-1.15.2 Floor-Operated Cranes

(a) A warning device should be provided for installations where the ability of the operator to warn persons in the path of the load is impaired.

**2-1.15.3 Types of Devices**

**One or more** of the following devices shall be provided when required:

- (a) manually operated gong
- (b) power-operated bell, siren, or horn
- (c) rotating beacon
- (d) strobe light

**AMSE B30.2 -2011** Also adreeses when a warning device is to be used by the operator.

2-3.1.7 Conduct of Operators

- (e) The operator shall activate the warning device on cab- and remote-operated cranes and, when provided, on floor-operated cranes
  - (1) before starting the bridge or trolley motion of the crane,
  - (2) intermittently during travel of the crane when approaching persons in the path of the load.

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# Reccomended Warning Equipment

## MULTI-TONE SIGNAL

### MT4-115-S 115 VAC 8 Tone Horn w/o strobe

The Multi-Tone Electronic Signal is field selectable to provide eight distinct tones, without optional flashing strobe light. UL Listed.

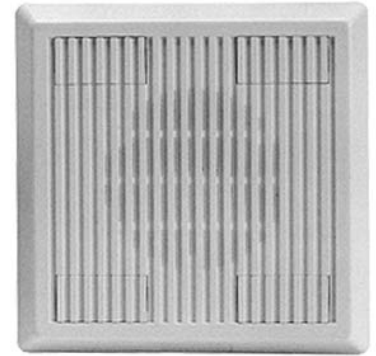
- 91-97 dba @ 10 ft.
- White is standard, Red is available
- 15/75 cd (candela) is standard, 30/75, 60/75, 75 & 110 are available
- Current Draw: Horn varies depending upon tone chosen, Strobe = 59 nr
- Strobe and Horn can be operated together or separately

### Eight Distinct Tones Available

Horn, bell, chime, siren, slow whoop, temporal, hi-lo, & single stroke bell.

### Accessories Available:

BB-S Indoor Surface Back Box for MT4 Series



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## MICROSTROBES® - AC Models

### 490S-120 1/2" Pipe Mount Hub

For general purpose visible signals the versatile MICROSTROBE® does it all. Choose from several mounting styles - even a medium base light bulb socket model. The most recent models have been upgraded to polyurethane potted power supplies with screw-on Lexan lenses, creating a 100% water-tight Type 4X enclosure.

### Application Note for 120 VAC Units

120 VAC units that are going to be switched on-off with a solid state relay should be ordered with option /TRIAC-SW to prevent false operation from snubber leakage current.

### SPECIFICATIONS

- Intensity AMBER 40 Candela (Other colors available upon request)
- 1.75 Joules per flash, power supply output 2.7 Watts
- 60 to 80 flashes per minute, -40F to +150F Temperature Range
- All models UL Listed
- Low power consumption 0.04 amps @ 120 VAC
- 5" tall X 3" Dia., 0.6 lbs.
- Two Year Warranty



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