

# ETH Horn Signals

## Factory Sealed

Cl. I, Div. 1 & 2, Groups B†, C, D  
Cl. II, Div. 1, Groups E, F, G  
Cl. II, Div. 2, Groups F, G  
Cl. III  
NEMA 7B†CD, 9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations

5S

### Applications:

ETH horn signals are used:

- For call signals, alarms, and various other signalling applications
- In specific hazardous atmospheres as found in chemical plants, oil and gas refineries, bulk loading stations, paint and varnish manufacturing plants, grain processing industries and grain elevators, as well as in certain metal, coal, combustible fiber processing or handling areas
- In conduit systems and mounted on a flat surface with the projectors aimed in the desired direction

### Features:

- No external conduit seal is required.
- The AC signals do not have arcing contacts.
- The DC horns have factory sealed wire leads in the interconnecting nipple and hub.
- The body cover joint of AC horn signals is of serrated construction, machined to close tolerance to ensure flametightness and secured by a clamping ring. The DC unit has a ground joint design.

### Certifications and Compliances:

- NEC:
  - Class I, Division 1 & 2, Groups B†, C, D
  - Class II, Division 1, Groups E, F, G
  - Class II, Division 2, Groups F, G
  - Class III
- UL Standard: 464, 1203
- CSA Standard: C22.2 No. 30

### Standard Materials:

- Copper-free aluminum

### Standard Finishes:

- Natural

### Size Ranges:

- Hub – 1/2" or 3/4" size

### Sound Levels:

- See Ordering Information table for individual ratings

### Electrical Rating Ranges:

- Nominal voltage – 24, 115, 230 VAC 24 VDC



ETH grill type horn signal

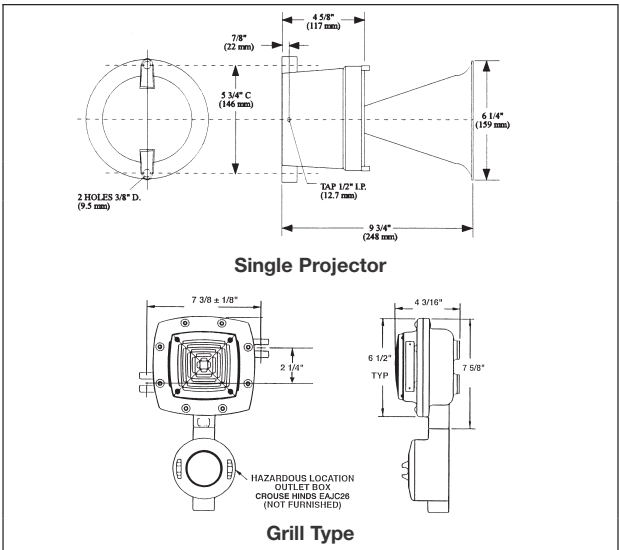
**Table 1**  
**Operating Current in Amperes at the Nominal Voltage for Horn and Siren Signals**  
**Horn Signal**

Nom. Volts	Amperes		DC ETH2416
	Single Projector	Grill Type	
	50 to 60 hertz AC ETH2702, ETH2703	50 to 60 hertz AC ETH2313, ETH2316, ETH2312	
24	—	0.625	0.16
115	.45	0.13	
230	.2	0.065	

### Ordering Information:

Supply	Nom. Volts*	Nom. Watts	Minimum audibility rating (dB) at 10':	Hub Size	Cat. #
<b>Single Projector Horn Signal</b>					
50 to 60 hertz AC	115	33	105 dB	1/2	ETH2703
	230	33	105 dB	1/2	ETH2702
<b>Grill Type Horn Signals</b>					
50 to 60 hertz AC	24		100 dB	3/4	ETH2316
	115	49	100 dB	3/4	ETH2313
	230		100 dB	3/4	ETH2312
DC	24	30	100 dB	3/4	ETH2416

### Dimensions In Inches:



†Grill type horns are certified for Group B.

\* See Table 1 for more complete ratings