



Signals – AURORA™ 8" & 12" LED

Trusted Performance. Modern Reliability.

With a legacy of proven performance, KB Signaling products combine quality workmanship with advanced design. Trusted by the world's leading rail networks, they continue to deliver the reliability and innovation that keep rail operations safe and efficient.



KB SIGNALING™

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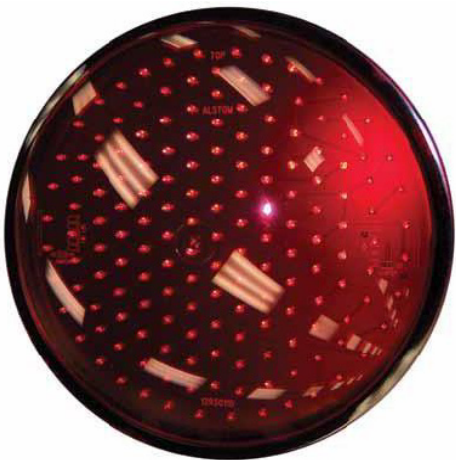
LED Technology

12" AURORA 300 and 160

- Brightest signal available – 1600
- Low cost – high intensity – 830 cd on axis (160)
- Independent bright white LED side lights for best viewing
- Regulated power supply – LED unit emits constant light output even at low voltages
- Red high impact UV stabilized outer lens
- No focusing required
- Compatible with all standard highway crossing signal housings
- Voltage turnoff at 7.5 volts
- No phankill required

8" AURORA 160

- Has 160 LEDs (850 candela intensity on axis)
- Designed as a direct replacement for incandescent bulbs, LED boards, or LED modules that fit inside 8-3/8 inch railway crossing signal
- Contains two side-lights, each containing 12 white LEDs
- Compatible with standard "8 inch" signal housings



Overview

The AURORA™ Highway Crossing Signal uses rugged Light Emitting Diode (LED) technology as the light source instead of a conventional incandescent, filament bulb. The result is an extraordinarily reliable highway crossing signal with a life expectancy of up to 100,000 hours, which is twenty times greater than an incandescent bulb-based system. The AURORA signal virtually eliminates phantom signals since it contains no reflector dish. Phankills are not required.

The AURORA Highway Crossing Signal is compatible with most AC and DC-based control systems for fast, economical installation. AURORA Retrofit Kits let you replace existing signals in the field. AURORA Highway Crossing Signals are ideal for front-light, back-light or cantilever applications. The signal meets chromaticity requirements for red as recommended by AAR Manual Part 7.1.10, CIE PUB 2.2-1975 and ITE VCSH 8.04. It also complies with the Manual-On Uniform Traffic Control Devices.

Key Features

AURORA 12" LED

The AURORA 12" LED lamp unit measures 12" in diameter. It is a self-contained unit; the lens and individual LEDs are not replaceable. The 12" LED unit is sealed and includes a high impact, UV stabilized, outer lens and separate white sidelights. A regulated power supply maintains constant light output during supply voltage variation. The 12" LED units are available in a retrofit kit for installation in any standard highway crossing signal housing. These units are also available as a complete signal head with an aluminum housing, 20" background, and hood.

AURORA 8" LED

The AURORA 8" LED light source, or LED lamp unit, measures 8.375" in diameter. It is a self-contained unit; the lens and individual LEDs are not replaceable. The 8" LED lamp unit is a sealed unit that includes a high impact, UV stabilized, outer lens and separate white sidelights. A regulated power supply maintains constant light output during supply voltage variation. The unit contains two side-lights, one on each side of the signal. The front LEDs are red and the side-light LEDs are white.

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Specifications

Data	Value
Environmental Requirements	AREMA Standard Class B, MILSTD 811
Operating Temperature	40°C to 70°C
IP Rating	IP 66
Electronic Noise	Meets AREMA Standard
Storage Temperature	-55°C to 85°C
Photometric Requirements	Transport Canada Standard



Data	AURORA 160 (8.375 inch)	AURORA 160 (12 inch)	AURORA 300 (12 inch)
Operating Voltage	8 to 20 VDC 8 to 16 VAC	8 to 20 VDC 8 to 16 VAC	8 to 20 VDC 8 to 16 VAC
Current (Nominal)	1.0 Amps at 10 VDC 1.1 Amps at 10 VAC	1.0 Amps at 10 VDC 1.1 Amps at 10 VAC	1.2 Amps at 10 VDC 1.3 Amps at 10 VAC
Typical Power Consumption	10 Watts at 10 VDC 11 Watts at 10 VAC	10 Watts at 10 VDC 11 Watts at 10 VAC	12 Watts at 10 VDC 13 Watts at 10 VAC
Dominant Wavelength	630 NM	630 NM	630 NM
Peak Intensity	850 Candela	850 Candela	1600 Candela
Operating Temp	-40° C to + 70° C	-40° C to + 70° C	-40° C to + 70° C
Storage Temp	-55° C to + 85° C	-55° C to + 85° C	-55° C to + 85° C

Ordering Information

Product Name	Description	Part Number
Aurora 12" 160	12-inch AURORA Highway Crossing Signal Retrofit Kit	59649-200-02
Aurora 12" 300	Ultra-Bright 12-inch AURORA Highway Crossing Signal Retrofit Kit	59649-200-03
Aurora 12" 160	12-inch AURORA Highway Crossing Signal Complete with Housing, 20-inch Dia. Background and Hood	59649-200-04
Aurora 12" 300	Ultra-Bright 12-inch AURORA Highway Crossing Signal Complete with Housing, 20-inch Dia. Background and Hood	59649-200-05
Aurora 8"	8-inch AURORA Highway Crossing Signal Retrofit Kit	59649-202-02

Contact your KB Signaling Business Development Manager
Call 1-800-825-7090, or Email us at kbsignaling.techsupport@knorr-bremse.com for more information today.

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