



# BUS LIGHTS

## 200 Series School Bus Flashers

Surface | Retrofit | Window







The 200 Series is the next generation of bus signal lighting. Featuring enhanced styling with easier installation. The 200 series is designed to be fitted into new and existing builds with multiple mounting options- Surface mount, Retrofit or Window mount. The Retrofit mount follows the existing bolt-hole patterns from the legacy 830-1XX series Hazard Systems bus flashers for a fast and easy upgrade.

All models feature a steady burn mode for backwards compatibility with legacy flasher controllers, a built-in wig wag and sync flash patterns. All models outperform photometric and surface area standards for Australian bus flashers.

Indicated models include a 70mm black plate for selected state requirements (such as TS150)



### Models:

PART NO.	COLOUR	VOLTAGE	AMPS	MOUNT	PLATE
830-200A		12-24	1.2	SURFACE	-
830-201A		12-24	1.2	SURFACE	70mm Black
830-202A		12-24	1.2	RETROFIT	-
830-203A		12-24	1.2	WINDOW	-

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830-200A

830-201A

### SURFACE:

Surface mount 830-200A and 830-201A models are designed with functionality in mind. Featuring a built-in wig-wag as well as steady-burn flash patterns, these surface mount models are built for new and existing builds. Furthermore, the 830-201A includes a 70mm black border to comply with local state requirements.

### RETROFIT:

The 830-202A is designed as a retrofit for the former recessed 830-210A and 830-211A models. With the same easy mounting holes the 830-202A is an easy solution for an existing retrofit build. With enhanced luminosity and the same built-in wig-wag option as the 830-200A, along with the trusted standard steady-burn, the 830-202A is a great solution.



830-202A



830-203A

### WINDOW:

Window mount 830-203A is designed for installation to the internal glass window. The 830-203A is perfect for integration into new and existing builds and features an integrated wig-wag flash pattern and a clean no-drill mounting solution with black VHB (3M-4991B) adhesive.

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### Luminous Intensity Chart:

Luminous Intensity of Warning Lights. 830-200A.

		Horizontal								
		-30°	-20°	-10°	-5°	0°	5°	10°	20°	30°
Vertical	10°	508050								
		624666583								
	5°	180320350450350320180								
		742981121914081105895653								
	0	754501000125015001250100045075								
		631104213011659200215091220937535								
	-5°	4027045057060057045027040								
	57693311761392155612911106883523									
-10°	757575									
	804847789									

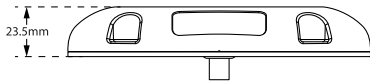
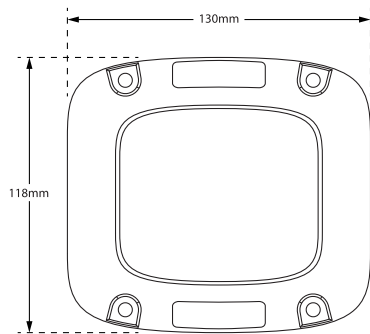
Top number = requirement

Bottom number = measured (bold)

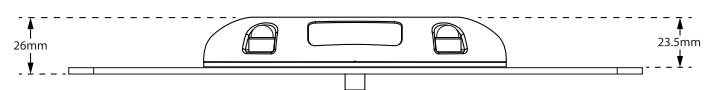
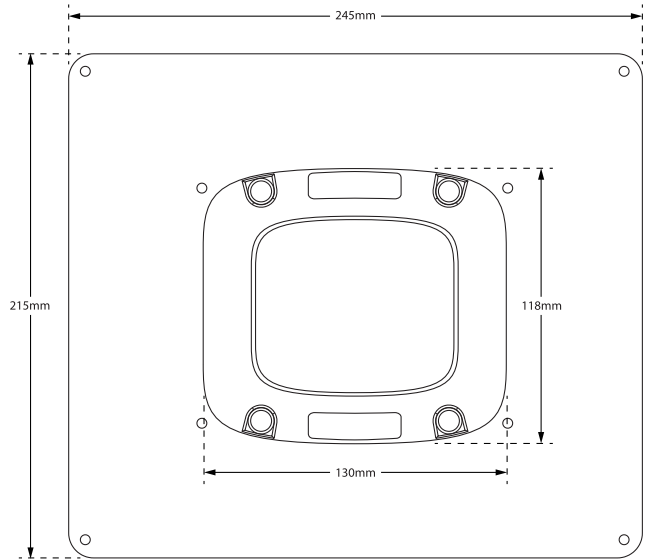
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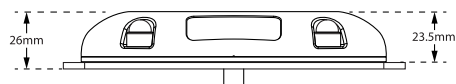
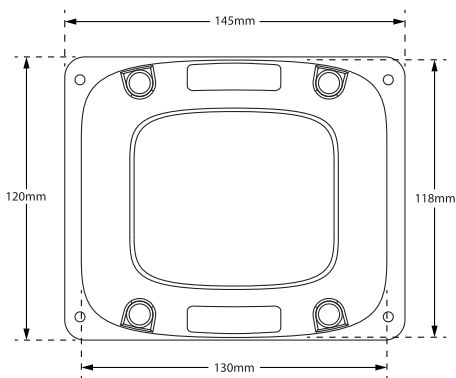
**830-200A**



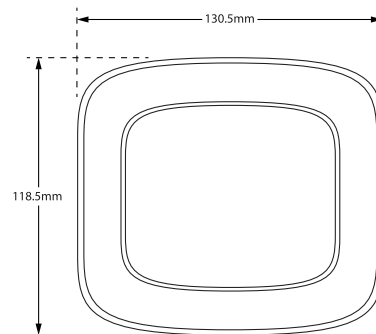
**830-201A**



**830-202A**



**830-203A**



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### Accessories:

## School Bus Flasher Controller

Boost school bus safety with the versatile N-BUSF Flasher Control Unit (12/24V). This unit activates bus lights when a door opens and keeps them flashing for 20 seconds after it closes.

For ECCO's 200 Series Bus Lights, the N-BUSF manages this crucial 20-second extended flashing. For legacy Hazard Bus Lights, it provides both the alternating (wig-wag) flash pattern and the 20-second post-closure flashing.

Operating on 12V or 24V systems, the N-BUSF supports two-door configurations. It also allows for early light activation via a user-supplied momentary switch or power cycle to meet specific state regulations.



### School Bus Flasher Controller:

PART NO.	VOLTAGE	BOLT	AMP	WARRANTY
N-BUSF	12-24	2	10A	1 Year

- Automatic on when a door is open
- 20-second shut-off timer when doors close
- Includes failure detection and manual mode
- Works with 200 Series & Legacy Hazard Bus Lights