R829-MX

Connected School Zone Beacon or Sign

carmanah®
MX Series

Kick school zone speeding to the curb with attention-grabbing, connected beacons that make quick work of system setup and scheduling.

✓ Every system ships with **3 years of free remote connectivity**

✓ Actionable email and text alerts

✓ Remote changes to system settings and schedules via MX Cloud™

✓ Quick setup and local access with MX Field App™ (iOS/Android)

✓ 'Smart module' design for simple installation and richer data

✓ Solar Power Report (SPR) available for every location

Free out-of-the-box connectivity
R829-MX systems have connectivity embedded into their design, making installation easy. From the moment a system receives power, it connects both locally to the MX Field App and remotely to MX Cloud, providing easy remote access to system status, settings and data.

Timely and actionable alerts
Cities can enable email and text alerts so they can know the minute there's an issue, be it a knockdown, dead battery or something else. Detailed location and module information reduce downtime and boost site visit efficiency while providing optimal citizen safety.

Remote scheduling
Cities with R829-MX beacons on the MX Pro subscription can take advantage of remote scheduling to create, adjust and delete schedules—including in bulk—via MX Cloud. Need to make a last-minute change due to weather? All it takes is a few clicks, whether it's to one system or one hundred.

Long-lasting, reliable operation
Every MX module is built to last with durable, weatherproof aluminum and vandal-resistant wireless antennas. Solar-powered models are solar-sized to project location, backed by a Solar Power Report (SPR) to prove year-round sustainability.

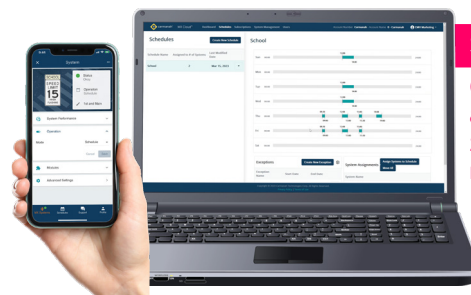SCHOOL SPEED LIMIT 15 WHEN FLASHING

MX Series
Connective Capabilities

MX CLOUD (REMOTE)

MX FIELD APP (LOCAL)

Scheduling
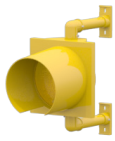Create, adjust and delete school zone schedules remotely or locally

MEETS MUTCD STANDARDS
Meets MUTCD Standards

Buy America/ BABA compliant

WARRANTY 3 YEARS WARRANTY
3-year limited warranty

carmanah.com   1-844-412-8395 | traffic@carmanah.com
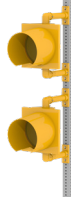
MX FLASHER MODULES

MX Beacon Module

MX LED Sign Module

MX Beacon Module	Meets MUTCD Standards: 2009 MUTCD, Chapter 4L, Flashing Beacons
	Meets ITE recommendations for signal intensity and distribution
	12" (305 mm) or 8" (203 mm) diameter LED modules, yellow
	Yellow or black heads in UV-resistant polycarbonate or aluminum
MX LED Sign Module	Meets MUTCD Standards requirements for color, flash rate and dimming
	3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components
	UV-resistant polycarbonate channels and waterproof housings protect wiring; includes fully integrated junction box
	Standard 24 x 48" S5-1 sign sizes (others available)

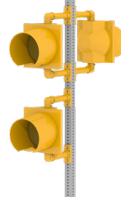## MX FLASHER MODULE MOUNTING (others available)

Single – Integrated   Dual – Vertical   Triple – Alt. Flash

Standard Banding   Through Bolt   U-Bolt

WIRELESS COMMUNICATION AND DATA COLLECTION

Local	MX Field App (Bluetooth®)
System-To-System	Linked MX systems flash in sync up to 1,000 ft (305 m) away
Remote	MX Cloud (cellular)
Location & Time	GPS

INCLUDED WITH EVERY SYSTEM

MX Subscriptions	**3 years out-of-the-box remote connectivity with MX Lite** See all MX subscriptions
MX Cloud	MX Cloud for remote health status monitoring, email/SMS alerts, scheduling, asset management, programming and more
MX Field App	Bluetooth® mobile app for on-site setup, local access to default settings, calendar scheduling, system health status and more Download on the App Store GET IT ON Google Play
Warranty	3-year limited warranty on MX system
	1-year limited warranty on batteries
Support	Carmanah's North American product support technologists available for solution building, solar sizing and troubleshooting
	24/7 access to Carmanah's online Product Support Center
Customize	**Build an R829-MX online (coming soon)**

MX POWER MODULES

Solar	12 VDC operation, solar sized to specific geographic location Includes 12-month Solar Power Report to ensure sustainability	
	System designed for 5+ year battery life	
	Replaceable, recyclable, sealed, maintenance-free AGM batteries offer the widest temperature range and longest life	
AC (only MX 300/400)	100-240 VAC in standard configurations	
Construction	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)	
	Lockable door Cabinet systems include Type II lock option (standard for MX 400)	
	Corrosion-resistant aluminum with stainless steel hardware	
	Raw aluminum finish or black powder-coated	

	MX 100	MX 200	MX 300	MX 400
Type	Integrated solar + battery	Integrated solar + battery	Separate solar + cabinet	Separate solar + cabinet
Housing Dimensions & Weight (w/o batteries)	12.6 x 13.6 x 5.3" 320 x 345 x 135 mm 5 lb (2.3 kg)	30 W version: 18.3 x 15.7 x 5.8" 465 x 399 x 147 mm 11 lb (5.0 kg) 50 W version: 18.3 x 26.3 x 5.8" 465 x 668 x 147 mm 14 lb (6.4 kg)	16.7 x 11.3 x 7.0" 424 x 287 x 178 mm 10 lb (4.5 kg) AC version weight: 12 lb (5.4 kg)	21.9 x 16.1 x 8.3" 556 x 409 x 211 mm 19 lb (8.6 kg) AC version weight: 21 lb (9.5 kg)
Mount Kits	Top of Pole Mount	Side of Pole Mount	Top of Pole Mount	Side of Pole Mount
	Universal solar mounts: • 2-2.5" perforated square posts • 2.38-2.88" OD round poles • 3.5-4.5" OD round poles • Side of pole		Cabinet mounts: • Standard banding • Through bolts • U-bolts (MX 400 only) Universal solar mounts: • 3.5-4.5" OD round poles • Side of pole	
Batteries	1-2x 7 Ah	1-2x 18 Ah	1x 18, 35 or 55 Ah	1x 35, 55 or 100 Ah
Solar	15 W	30 or 50 W	50, 80 or 170 W	50, 80 or 170 W
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above	50 W: 26.3 x 21.2" (668 x 538 mm) 10 lb (4.5 kg) 80 W: 30.7 x 26.5" (780 x 672 mm) 13 lb (5.9 kg) 170 W: 59.1 x 26.3" (1500 x 668 mm) 25 lb (11.3 kg)	