

R829-MX

CONNECTED SCHOOL ZONE BEACON

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

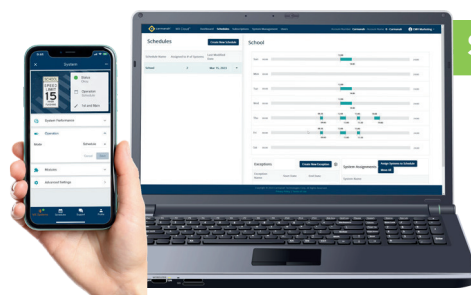
Every MX module is built to last with durable, weatherproof aluminum construction and vandal-resistant wireless antennas. Solar-powered models are solar-sized to project locations, backed by a Solar Power Report (SPR) to prove year-round sustainability.



Cabinet-based solar and AC (100-240 VAC) available

MX Series

Connective Capabilities



Scheduling

Create, adjust and delete school zone schedules remotely or locally



Configurable to
MUTCD Standards



Buy America/
BABA Compliant



3 Year
Limited Warranty



R829-MX

CONNECTED SCHOOL ZONE BEACON



MX FLASHER MODULES

MX Beacon Module



MX Beacon Module	Configurable to MUTCD 11th Ed. (Chapter 4S) Standard
	12" (305 mm) or 8" (203 mm) diameter LED modules, yellow or red
	Yellow or black heads in UV-resistant polycarbonate or aluminum

MX FLASHER MODULE MOUNTING (others available)

Single – Integrated



Standard Banding

Dual – Vertical



Through Bolt

Triple – Alt. Flash



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

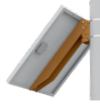
INCLUDED WITH EVERY SYSTEM

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  
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

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
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 200 W	50, 80 or 200 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) 200 W: 59.1 x 26.3" (1500 x 668 mm) 25 lb (11.3 kg)	

Build your MX
School Zone System



The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Carmanah Technologies is under license. Other trademarks and trade names are those of their respective owners. Android is a trademark of Google LLC. Specifications subject to local environmental conditions, and may be subject to change. All Carmanah products are manufactured in facilities that are certified to ISO quality standards. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp. © 2026, Carmanah Technologies Corp. Document: Carmanah_DATA_R829-MX_RevE

