R920-MX

Connected Crosswalk Beacon or Sign, Canada

Boost safety at unsignalized crossings with proven technology, actionable alerts, and street-level data.

- Every system ships with <u>3 years of free remote</u> connectivity
- Actionable email and text alerts
- ✓ Remote system access 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

R920-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. RRFB systems come with default settings that meet MUTCD Standards, including wig-wag plus simultaneous (WW+S) flash pattern.

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.

Comprehensive asset visibility and data collection

All MX systems come with MX Cloud, a web-based application that lets users remotely access system locations, alerts, settings and data like daily activation counts. The GPS map not only gives cities better visibility, but enables streamlined, proactive asset management and future planning.

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.



Meets MUTCD Standards



Buy America/ BABA compliant



3-year limited warranty



MX Series Connective Capabilities



What's a Solar Power Report™ (SPR)?

No matter where you install your solar-powered system, your product should be carefully sized for its location to ensure it will be operational for the long-term.

Over the last 20+ years, our engineers have developed a field-proven software simulation that helps us replicate the real-life conditions of your project location—and determine the best solar-powered solution for your project.

Learn more about our process at carmanah.com/spr.

R920-MX

Connected Crosswalk Beacon or Sign, Canada

carmanah® MX Series

MX FLASHER MODULES







MX RRFB Module

MX Beacon Module

MX LED Sign Module

	Meets MUTCD 11th Ed. (Chapter 4L) and MUTCDC (Canada) Standards		
	Purpose-built optics exceed SAE J595 class 1 intensity by 2.5-3x when used as recommended; meet SAE J578 chromaticity		
	3" (76 mm) x 7" (178 mm) clear, UV-rated polycarbonate lens with yellow LEDs and side-emitting pedestrian confirmation LEDs		
MX RRFB	Stainless steel mounting brackets make back-to-back installation simple and enable in-field aiming for maximum effectiveness		
Module	Yellow or black powder-coated light bar covers		
	Light bar configuration: uni-directional or bi-directional		
	RRFB backplate and mast arm mount available		
	In-field aiming: rotate the light bar towards the incoming vehicle lane, independent of the wire hole location		
	Configurable to MUTCD 11th Ed. (Chapter 4S) standards		
MX Beacon	12" (305 mm) or 8" (203 mm) diameter LED modules, yellow		
Module	Yellow or black heads in UV-resistant polycarbonate or aluminum		
	Side of pole arm and top of pole mount kits available		
	Meets MUTCD 11th Ed. (Chapter 2A.12) Standards		
	3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components		
MX LED Sign Module	UV-resistant polycarbonate channels and waterproof housings protect wiring; include fully integrated junction box		
	Standard 30" and 36" W11-2 and S1-1 sign sizes (others available) Standard yellow and fluorescent yellow-green sign colors available		
	Standard banding, through bolt and U-bolt mount kits available		
Options	RASH TO THEN ON THE PARTY OF TH		
	Audible Overhead lighting Passive pedestrian Information Device fixture (see data cheet) (ALD) pure butter		

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	

sheet)

(AID) push button

INCLUDED WITH EVERY SYSTEM		
3 years out-of-the-box remote connectivity with MX Lite See all MX subscriptions		
MX Cloud for remote health status monitoring, email/SMS alerts, scheduling, asset management, programming and more		
Bluetooth® mobile app for on-site setup, local access to default settings, system health status and more App Store © Coogle Play		
3-year limited warranty on MX system		
1-year limited warranty on batteries		
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		
Build an R920-MX online		

MX POWER MODULES		
	12 VDC operation, solar sized to specific geographic location Includes 12-month Solar Power Report to ensure sustainability	
Solar	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	
	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)	
Construction	Lockable door	
Construction	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	

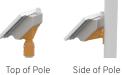






_		
Type	Integrated solar + battery	Integrated solar + battery
Housing Dimensions & Weight (w/o batteries)	12.6 x 13.6 x 5.3" 320 x 345 x 135 mm 5 lb (2.3 kg)	30 W version: 18.3 x 15.7 x 5.8" 465 x 399 x 147 mm 11 lb (5.0 kg) 50 W version: 18.3 x 26.3 x 5.8" 465 x 666 x 147 mm 14 lb (6.4 kg)





Mount Mount Kits Universal solar mounts:

Mount

- 2-2.5" perforated square
- 2.38-2.88" OD round poles
- 3.5-4.5" OD round poles
- · Side of pole

Batteries	1-2x 7 Ah	1-2x 18 Ah
Solar	15 W	30 or 50 W
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above





MX 300	MX 400
Separate solar + cabinet	Separate solar + cabinet
16.7 x 11.3 x 7.0" 424 x 287 x 178 mm 10 lb (4.5 kg)	21.9 x 16.1 x 8.3" 556 x 409 x 211 mm 19 lb (8.6 kg)
AC version weight: 12 lb (5.4 kg)	AC version weight: 21 lb (9.5 kg)





Top of Pole Mount

Side of Pole Mount

Cabinet mounts:

- Standard banding
- Through bolts
- U-bolts (MX 400 only) Universal solar mounts

3.5-4.5" OD round polesSide of pole		
1x 18, 35 or 55 Ah	1x 35, 55 or 100 Ah	
50, 80 or 170 W	50, 80 or 170 W	
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)		

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.

© 2024, Carmanah Technologies Corp. Document: Carmanah_DATA_R920-MX-CAD_RevG