R920-MX

Connected Crosswalk Beacon or Sign

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





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 solarpowered solution for your project.

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

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MX FLASHER MODULES

8333	8888

MX RRFB Module





MX LED Sign Module

	Meets MUTCD approval (IA-21) and MUTCD (Canada) Standards			
MX RRFB Module	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			
	Stainless steel mounting brackets make back-to-back installation simple and enable in-field aiming for maximum effectiveness			
	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			
	Meets MUTCD Standards: 2009 MUTCD, Chapter 4L, Flashing Beacons			
MX Beacon	Meets ITE recommendations for signal intensity and distribution			
Module	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 LED requirements for color, flash rate and dimming			
	3M High Intensity Prismatic or Diamond Grade retroreflective			
	sheeting and components			
MX LED Sign	UV-resistant polycarbonate channels and waterproof housings			
Module	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			
	Standard banding, through boit and 0-boit mount Kits available			

Options Accessible Pedestrian Signals (APS) push button Overhead lighting fixture (see data sheet) Passive pedestrian detection

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 WIT	H 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	
<u>MX Field App</u>	Bluetooth® mobile app for on-site setup, local access to default settings, system health status and more	
	Google Play	
Warranty	3-year limited warranty on MX system	
	1-year limited warranty on batteries	
	Carmanah's North American product support technologists	
Support	available for solution building, solar sizing and troubleshooting	
	24/7 access to Carmanah's online Product Support Center	
Customize	Build an R920-MX online	

		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 300/4	00) 100-2	100-240 VAC in standard configurations				
		Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)				
Construct	on	Lockable door Cabinet systems include Type II lock option (standard for MX 400				
	Corro	Corrosion-resistant aluminum with stainless steel hardware				
	Raw a	Raw aluminum finish or black powder-coated				
	Ĺ				R.	
	MX 100		MX 200		MX 300	MX 400
Туре	Integrate solar + batt		Integrated Iar + battery		Separate solar + cabinet	Separate solar + cabine
	Solai – Dall	ery su	an battery		Solut - cubilict	

Type	solar + battery	solar + battery	solar + cabinet 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" 21.9 x 16.1 x 8.3" 424 x 287 x 178 mm 556 x 409 x 211 mm 10 lb (4.5 kg) 19 lb (8.6 kg) AC version weight: 12 lb (5.4 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		
146	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		
	1		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 2 kg)		
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above	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:		

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