

Sensors for reliable detection of stationary or moving vehicles

- ▶ Reliably detects large metal objects, such as cars, trucks, production vehicles and railcars, even when they aren't moving
- ► Allows for detection of small vehicles, such as motorcycles, wheelchairs, steel bicycles and golf carts
- ▶ Learns ambient background and stores setting



M-GAGE™ Series: S18M

- 18 mm barrel design that can be surface mounted or easily passed through nonmetallic conduit; ideal for new installations
- Integral push button or remote line for simple programming
- · Rugged ABS/polycarbonate housing

- ▶ Monitors magnetic flux changes when metal (ferrous) objects are introduced
- ► Works with PLCs or existing amplifiers and timer cards
- ► Encapsulated in rugged epoxy to prevent moisture penetration
- ► Offers power supply and relay interface options



M-GAGE™ Series: 07M

- Flat-Pak design—only 77.0 x 19.0 x 7.5 mm
- Narrow housing for surface mounting or 1/4" (road surface) saw cut
- Rugged epoxy-encapsulated, anodized aluminum housing with thermoplastic end caps

Quick and easy-to-install solution for greater accuracy, repeatability and durability

An innovative solution for most vehicle sensing applications

- ► Vehicle detection in a car wash
- ► Truck detection at loading dock
- ► Car detection in drive-thru
- ► Vehicle counting in tollbooths
- ► Automatic overhead door and gate actuation
- ► Traffic monitoring in turn lanes and bridge decks
- ► Vehicle incursion







- ► Replaces cumbersome, failure-prone inductive loops with performance equal to or better than a 6' diameter loop
- ► Easily installs above or below grade (up to 18")
- ► Installs in a fraction of time needed to repair or replace failed loops; wires into existing controls
- ► Features completely self-contained design with no external controller
- ► Allows reliable activation in unstable soil and substrates
- ▶ Provides a robust, low-cost alternative to video detection systems—operates 24/7, in all weather, without illumination or additional infrastructure
- ► Rated to IP69K; NEMA 6P, depending on model

Advanced Monitor Software

- Shows threshold adjustment
- ► Provides real-time information display through a PC



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M-GAGE TM Vehicle Detection Sensors



\$18M Models. 10-30V dc

Model	Cable*	Cable Type	Output Type	Data Sheet
S18MB	2 m (6.5')		Dinalar	114430
S18MB W/*	5 m (15'), 9 m (30'), 15 m (50'), 30 m (100') or 60 m (200') cable lengths also available	5-conductor cable	Bipolar NPN/PNP**	

- * For 15', 30', 50', 100' or 200' length cables, add length W/(length) to the model number (example, S18MB W/30 for 30' cable). For a 5-pin Euro-style QD, add suffix **Q** to the 6.5' model number (example, **S18MBQ**). A model with a QD requires mating cordset. See product data sheet for more information.
- ** Consult with factory for other options.



Q7M Flat-Pak Models, 10-30V dc

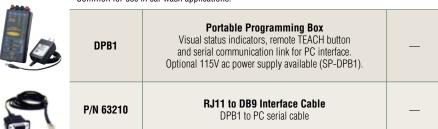
Model	Cable*	Cable Type	Output Type	Data Sheet
Q7MB	2 m (6.5')	26 gage/5-wire shielded Bipolar		
Q7MB W/*	5 m (15'), 9 m (30'), 15 m (50'), 30 m (100') or 60 m (200') cable lengths also available	cable with 4.1 mm diameter polyethylene jacket	NPN/PNP**	117172

- * For 15', 30', 50', 100' or 200' length cables, add length W/(length) to the model number (example, Q7MB W/30 for 30' cable). For a 5-pin Euro-style pigtail QD, add suffix Q to the 6.5' model number (example, Q7MBQ). A model with a QD requires mating cordset. See product data sheet for more information.
- ** Consult with factory for other options.

Power Supplies and Interface Modules for use in Control Cabinets

	Model	Description	Sensor Input	Input Voltage	Data Sheet
	PS24-1N*	Power Supply - e/m relay output, status lights, and TEACH button	NPN	24V ac	123566
	PS24-1P*		PNP		
	PS115-1N		NPN	115V ac	
	PS115-1P		PNP		
	SIM-525T	Passive Interface Module Visual status indicators, permanent remote TEACH access and direct link to communication line		_	123240

* Common for use in car wash applications.



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DX80 Wireless M-GAGE™ Node for Vehicle Detection





SureCross™ M-GAGE sensor with integrated wireless connectivity and battery life up to 10 years.

> Contact factory or go online for details.

Online Training & Tutorials

A complete resource for tutorials, product questions & answers—and the mechanics & theory behind sensor technology available online at

www.bannerengineering.com

- Q: What is the range of the M-GAGE?
- Q: How deep can I bury the sensor?
- Q: Can I reliably see 2 lanes at once?
- Q: What is the smallest vehicle the sensor will detect?

Go online for answers to these M-GAGE questions or to pose your own!

Quick-Disconnect (QD) Cordsets

Style	Model	Length
5 : 5 . 0.1	MQDEC2-506	2 m
5-pin Euro-Style straight, with shield	MQDEC2-515	5 m
WILLI SHIGH	MQDEC2-530	9 m
5 . 5 . 0. 1	MQDEC2-506RA	2 m
5-pin Euro-Style right-angle, with shield	MQDEC2-515RA	5 m
WITH SHIELD	MQDEC2-530RA	9 m

NOTE: Take advantage of the full capabilities of the M-GAGE by using the following items:

- Advance Monitor Software
- DPB1 Portable Demo Box with SP-DPB1 115V ac power supply/battery eliminator
- DPB1 to PC interface cable



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