

Applications

- Automatic gates and doors
- Drive thru windows
- Car washes
- Parking and traffic monitoring
- Loading docks

Sensitive Area vs. Sensitivity Adjustment

Area (ft.)	Height at the center (ft.)	Sensitivity (adjustment setting)
1x1	1	2
2x2	2	3
3x3	3	4
4x4	4	6
5x5	5	7



LRS-C1



LRS-DB-XX



LRS-FP-XX



LRS-L

Technical Data

Sensing Technology
ULTRAMETER™ Display

Axis Sensitivity

Environmental Tracking

Local Magnetic Field Nulling

Detection Range

Power/Fault Indicator

Detect Indicator

Pulse/Presence

Detect-On-Stop™

Outputs

Output Ratings

Connection

Operating Environment

Housing

Environmental Rating

Power Supply

Current Draw

Supply Protection Circuitry

Dimensions

Weight

Control Unit

Control Unit & Sensor

Sensor

	3-axis magnetoresistive	
	10 levels of sensitivity: 0-9	
	512 counts/gauss (typical)	
	Automatic compensation	
	Averages local field signature in any sensor orientation	
	5 ft. (1.5m)	
	Green LED	
	Red LED	
	Allows the relay/NPN output to send either a pulse output or have constant presence	
	Requires vehicle to stop for a minimum of 1 second (1-2s typical)	
	SPDT relay/NPN (open collector)	NPN (open collector)
	Relay: 1A @ 24VDC...120VAC NPN: 50 mA (max)	50 mA
	10 position screw terminal	5 conductor direct burial
	-40° C...82° C (-40° F...180° F) 0...95% relative humidity	
	ABS	DB: PVC FP: Polyamide
	IP30	IP69K
	12-30 VDC and 24 VAC	12-30 VDC
	40 mA max	10 mA max
	Reverse polarity and fuse protected	
	76mm (3.0") x 22mm(0.9") x 70mm(2.75")	DB: 102mm (4.0") x 27mm (1.0") FP: 108mm (4.3") x 22mm (0.9") x 9mm (0.3")
	68g (0.15 lbs.)	DB: 43g (0.09 lbs.) FP: 27g (0.06 lbs.)

Ordering Information

- LRS-C1 Control Unit
- LRS-DB-50 Direct Burial Sensor, Probe, 50'
- LRS-DB-100 Direct Burial Sensor, Probe, 100'
- LRS-FP-50 Direct Burial Sensor, Flat Pack, 50'
- LRS-FP-100 Direct Burial Sensor, Flat Pack, 100'
- LRS-L Logic Interface (optional accessory), includes black 11 pin socket base DIN rail mount

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. Rev 1.0 08/04/2020

