

CrossCommand RRFB CrosswalkTM

with Radar-Based Traffic Data Collection

SPECIFICATIONS



Radar-Enabled Light Bar with Countdown

Integrated radar technology collects traffic data directly from the RRFB for actionable insight to pedestrian crossings.

Full-matrix side LEDs provide an optional, highly visible countdown, alerting pedestrians when 9 seconds remain to cross.



MUTCD 11th Ed. Compliant
BABA Compliant
Certified Quality System ISO 9001:2015



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RADAR

Radar Integration	Radar is included in all light bars K Band, Single Detection Doppler Radar Radar is used for traffic data collection only and does not initiate RRFB activation
Radar Beam	Width: 12°; Height: 24°
Vehicle Detection	Up to 1200 feet
Vehicle Speed Detection	5 - 127 mph (accuracy +/- 1 mph)

RRFB LIGHT BAR ASSEMBLY

Light Bar Configurations	Single, Dual Back-to-back mounting supported Independent rotation per light bar for in-field aiming
Light Bar Housing	Aluminum housing with UV-resistant polycarbonate overlay Dimensions: 24" W x 5.125" H x 5.6" D
RRFB Indicator	Dimensions: 7.125" W x 3.25" H Spacing: 7.5" between indicators
Side LED Panels	Full-Matrix design with UV-resistant polycarbonate overlay
Finish Options	Black powder coated, Yellow powder coated, green powder coated <i>Custom colors available up on request; subject to extended lead times and minimum quantities</i>
Backplate (Optional)	Aluminum backplate with yellow retroreflective high-intensity prismatic laminate
Pole Compatibility	2" Square Post, 3.5" OD Pole, 4.5" OD Pole

RRFB OPTICS + FLASHING MODES

Light Intensity	Meets Class 1 yellow peak luminous intensity in the SAE standard J595 Optical Warning Devices
Flash Rate	75 flashing sequences per minute (MUTCD 11th Edition Compliant) ≤ 5 flashes per second (photosensitive seizure mitigation)
Flash Duration	Field configurable; Adjustable in 1-second increments
Flash Reset Logic	Restarts on every button press, regardless of current cycle (MUTCD 11th Edition Compliant)
Ambient Dimming	Automatic nighttime dimming

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SIGNAGE



W11-2	S1-1	W11-15	W16-7p	R10-25	R10-32P
Pedestrian Crossing	School Crossing	Trail Crossing	Diagonal Downward Arrow Plaque	Push Button To Turn on Warning Lights	Push Button for 2 Seconds for Extra Crossing Time
30", 36", 48"	30", 36", 48"	24", 30", 36", 48"	21" x 15", 30" x 21"	9" X 12"	9" X 12"
Yellow, Fl. Yellow Green	Fl. Yellow Green	Yellow, Fl. Yellow Green	Yellow, Fl. Yellow Green	White	White

PEDESTRIAN ACTIVATION

Activation Method	3" Round Push button Assembly with 9" x 12" Housing Push button that integrates with light bar(s) for visual LED confirmation Rated for 300 activations per day ADA compliant
Side Panels Walk Indication <i>Optional</i>	Corner pixel flash illumination Numeric countdown begins at 9-seconds remaining Walk indication on side panels can be enabled or disabled
Extended Walk Activation <i>Optional</i>	2-second push activates extended walk time Includes R10-32P instructional plaque that is required for extended walk time activation
Wireless Activation Response	≤ 150ms
Multi-Device Pairing	Auto-pairing within 150ft Allows for multiple devices to be paired Compatible with median and round-about installations, with or without additional push buttons

POWER SYSTEM

SOLAR MODEL

Solar Panel	33w with 8' cable <i>Option to upgrade to 55w, 85w, or 120w</i>	Input Voltage	100-240 VAC, Hardwired
Backup Power	(2) 9Ah Lead-Acid batteries (18Ah total) Batteries are integrated into light bar Field-replaceable Provides 7+ days of backup power when fully charged	Power Consumption	≤ 2.0ah (24w) max output ≤ 0.5w when idle

AC MODEL

DEVICE MANAGEMENT + DATA COLLECTION

RS Operating System <i>Local Connectivity</i>	Local user interface accessed via WiFi on a browser. Allows for RRFB device management, configuration, and traffic data collected by radar.
Cellular Connectivity <i>Remote Access</i>	Optional cellular communication module enabling remote device access through Command Center™. Available in 1-year or 2-year subscriptions per device.
StreetSmart Traffic Data™ <i>No Recurring Fees</i>	One-time lifetime license fee per unit. Includes customizable charts and graphs. Users can view and download radar-recorded traffic data.
Command Center™ Fleet Management <i>Formerly Radarsign Cloud™</i>	Fleet management platform for all Radarsign products. Enables cloud-based remote management for devices with cellular connectivity. Allows uploads of StreetSmart traffic data to cloud* <i>*StreetSmart data license required</i>



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