



Technical Specifications

Sensor Outputs

- Real-time presence data in 10 lanes
- Maximum number of zones: 16
- Maximum number of channels: 16
- User-selectable zone to channel mapping
- AND logic triggers the channel when all the selected zones are active
- OR logic used to combine multiple zones to a channel output
- Channel output extend and delay functionality
- Algorithms mitigate detections from wrong way or cross traffic
- Fail-safe mode for contact closure outputs if communication is lost

Detectable Area

- Detection range: 6 to 140 ft. (1.8 to 42.7 m)
- Field of view: 90°
- Flexible lane configuration support including:
 - Up to 10 lanes
 - Curved lanes
 - Islands and medians

System Hardware

- A SmartSensor Matrix corner radar for each approach
- A traffic cabinet preassembled backplate with:
 - AC/DC power conversion
 - Surge suppression
 - Terminal blocks for cable landing
 - Communication connection points
 - Cabinet side mount or rack mount
- Contact closure input file cards:
 - 2 or 4 channel
 - Compatible with industry standard detector racks

Maintenance

- No cleaning or adjustment necessary
- No battery replacement necessary
- Recalibration is not necessary
- Mean time between failures: 10 years (estimated based on manufacturing techniques)

Physical Properties

- Weight: 4.2 lbs. (1.9 kg)
- Physical dimensions: 13.2 in. x 10.6 in. x 3.3 in. (33.5 cm x 26.9 cm x 8.4 cm)
- Resistant to corrosion, fungus, moisture deterioration, and ultraviolet rays
- Enclosure: Lexan EXL polycarbonate

Ordering Information

SmartSensor Matrix
SS-225

ACCESSORIES

- SS-KIT - Wavetronix install kit
- SS-112/114 - Click 112/114 rack cards
- SS-704-xxx/705 - SmartSensor 6-conductor cable
- SS-611 - SmartSensor mount
- SS-B01-0003/0005/0008 - Intersection preassembled backplate - AC
- SS-B01-0004/0006 - Intersection preassembled backplate - DC
- SS-B02-0002/0003 - Intersection preassembled 19-inch rack
- SS-710 - Sensor cable junction box

Wavetronix

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- Outdoor weatherable: UL 746C
- Watertight by NEMA 250 standard
- NEMA 250 compliant for:
 - External icing (clause 5.6)
 - Hose down (clause 5.7)
 - 4X corrosion protection (clause 5.10)
 - Gasket (clause 5.14)
- Withstands 5-ft. (1.5-m) drop
- Connector: MIL-C-26482
- Rotational backplate for 360° of roll

Electrical

- Power consumption: 9 W
- Supply voltage: 9-28 VDC