

PreView Sentry

The Most Flexible, Accurate and Powerful Solution



Description

PRECO, the worldwide leader in heavy-duty object detection systems, is proud to announce their most advanced solution to date: the PreView Sentry.

This is the industry's most flexible, accurate and powerful solution Sentry has a fully adjustable detection zone, with the ability to detect objects from the face of the radar up to 30m (98') in length and 60m (197') in width, creating a detection zone that is adjustable to fit almost all vehicle types.

Sentry accurately identifies the location and velocity of up to 16 people or objects simultaneously and is designed to withstand the harsh environments encountered by heavy-duty equipment. With built-in fail safe alerts that notify the operator of radar detection or communication issues, operators and fleet managers can be sure that they are working with the most reliable object detection system available.

Features and Benefits

- Frequency: 24Ghz
- Programmable detection range: 0' to 98' (0m to 30m)
- Programmable detection width: 6.5' to 197' (2m to 60m)
- Current Draw: Less than 0.25A
- Connects to reverse lights for power
- Operating Temp: -40 F/ +185 F (-40 C to +85 C)
- Sensor Dimensions: 4.9"H x 4.06"W x 1.28"D
- Display Dimensions: 1.0"H x 2.3"W x 2.0"D
- Ability to customize detection zone (range and width) onsite with Pre-coNet Service Tool
- Built to meet rugged J1455 Specs
- Utilizes standard CAN communication protocols

Applications

Heavy-duty object detection

Operating Modes

| | |
|-------------------------|-----------------------------|
| Detection Pattern | Fixed based on model number |
| Target Detection Time | 300 ms |
| Power On to Active Time | 300 ms |

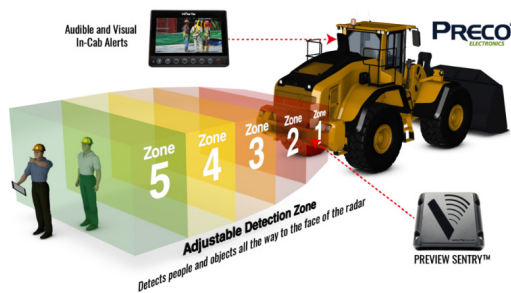
Communications Interface

| | |
|---------------|---|
| J1939 CAN Bus | 250 Kbits/sec, terminated with 120 ohm resistor |
| LED Interface | Switch to ground, sink up to 1A, over current protected |

Physical Characteristics

| | |
|------------------|---|
| Sealing | IP69K |
| Housing Material | Polycarbonate radome |
| Dimensions | 4.90" (w) x 4.06" (h) x 1.28" (d) (12.4 cm x 10.3 cm x 3.25 cm) |
| Weight | 1.0 lb (0.45 kg) |
| Mounting | Four 0.22" (5.6 mm) diameter mounting holes |

| Part No. | Detect Range | Detect Width | Trans Freq | Voltage | Amps |
|----------|-------------------|----------------------|--------------|----------|--------|
| ST87062 | 0 - 30m (0 - 98') | 2 - 60m (6.5 - 197') | 24-24.25 GHz | 9-33V DC | < 0.5A |



Tech Specs

Measuring Performance

| | |
|-------------------------|---|
| Range | 0 – 30 m (10 dBsm target) depending on model number |
| Range Accuracy | 0.3m |
| Azimuth Field of View | ±75 degrees (10 dBsm target) |
| Elevation Field of View | ±10 degrees (10 dBsm target) |
| Angle Accuracy | ±2° @ ±10° FOV, ±5 @ ±30° FOV, ±10 @ ±75° FOV |
| Velocity Range | ± 9 m/sec (± 20 mph) |
| Target Resolution | 1.4 m for static targets, approaching 0.3 m for dynamic targets |
| Cycle Time | 120 ms (A CAN bus target message is provided in every cycle.) |
| Water Tightness | IP 68 - IP 69K |
| Operating Temp | -40°C to +60°C |
| Salt Spray | ISO 9227 |
| Housing | Plastic Aluminum |
| Lens | Hardened glass |
| Reflector | Free from reflector |
| Warranty | 5 Years |

Operating Conditions

| | |
|-----------------------|---|
| Frequency | 24.00 – 24.25 GHz |
| Power Supply | 9 – 33 VDC, Reverse polarity and over-voltage protected |
| Current | <0.5 A |
| Operating Temperature | -40°C to +85°C |
| Storage Temperature | -55°C to +105°C |
| Shock | 50G |
| Vibration | 25 G, random, all three axis |
| Protection Rating | IP69K |



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