

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 PrecoNet 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

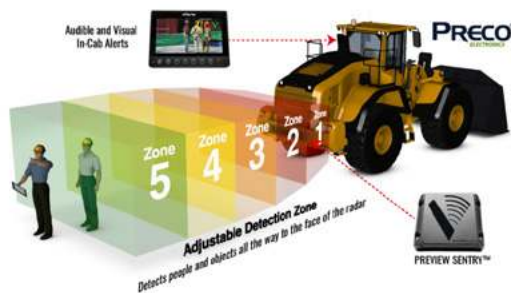
Sealing	IP69K
Housing Material	Polycarbonate radome
Dimensions	4.90" (w) x 4.06" (h) x 1.28" (d) (12.4 cm x 10.3 cm x 3.25 cm)
Weight	1.0 lb (0.45 kg)
Mounting	Four 0.22" (5.6 mm) diameter mounting holes

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

Please Note:

All Sentry Radars are configurable to a maximum detection length of 30m (98') and a maximum detection width of 60m (197'). Calibration is done via the PVST4000S PreView Service Tool.

Authorised Importer and Master Distributor



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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