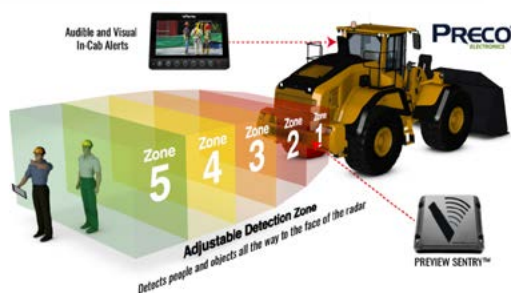


# PreView Sentry

## The Most Flexible, Accurate and Powerful Solution



### 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

### 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 30 meters (98 feet), and the width of the detection zone 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 blockage or communication issues, operators and fleet managers can be sure that they are working with the most reliable object detection system available. PRECO's engineering team spent over two years developing the PreView Sentry radar in order to provide our customers with the most sophisticated heavy-duty object detection radar available.

### Features and Benefits

- Frequency: 24Ghz
- Programmable detection range: 0' to 98' (0M to 30M)
- Programmable detection width: 6.5' to 26' (2M to 8M)
- Current Draw: Less than .25 AMP
- 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

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