

PreView Sentry®X

Featuring a Narrow Field of View for Specialised Applications

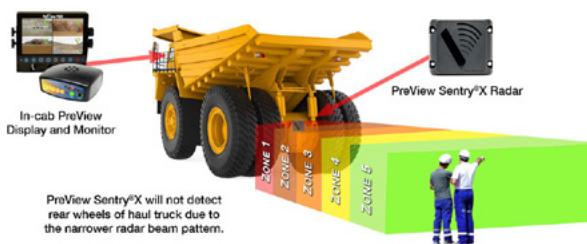


Description

PreView Sentry has been a world leader in close proximity collision mitigation for many years now. With on-ground consultation with contractors and mining customers, a limitation of certain applications was identified.

During installation of a large haul truck, it was identified that with Sentry's patented 150° beam pattern, the inner rear wheels of the truck were within the radar's detection zone causing false detections. Based on this finding a narrower beam pattern was a requirement for this application. As the previous PreView Xtreme radar remains the only solution for haul truck rear detection due to the narrow beam pattern.

Enter the PreView Sentry X. Using the Sentry platform, PRECO has created a product with a narrower field of view designed to support all the same installation points as the original PreView Xtreme. The Sentry X adds a narrow field of view option to PRECO's latest product family – the global standard for blind spot monitoring on heavy duty mobile equipment operating in the harshest of environments.



Features and Benefits

- Frequency: 24Ghz
- Azimuth Field of View: ±55° (110° horizontal)
- Protection Rating: IP69K
- Programmable Detection Range: 0' to 100' (0m to 30m)
- Detection Pattern: Configurable | Set based on model
- Current Draw: Less than 0.25A
- Operating Temp: -40 F/ +185 F (-40 C to +85 C)
- Sensor Dimensions: 4.9"H x 4.06"W x 1.28"D
- Utilizes standard J1939 CAN communication protocols
- Qualified for use globally including Japan and India



Tech Specs

Measuring Performance

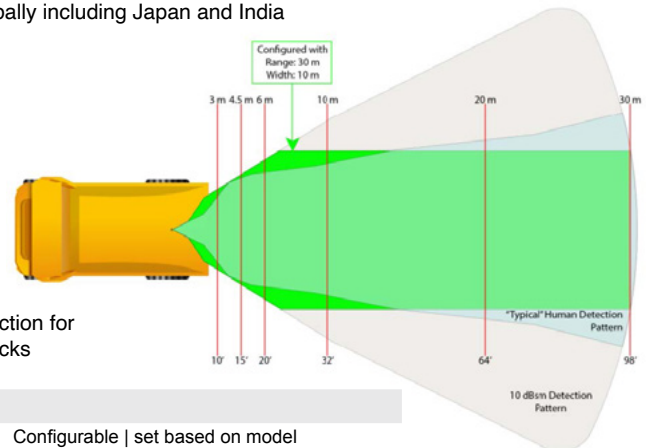
Range	0 - 100 ft / 0 - 30 m (10 dBsm target) - Depending on configured detection
Range Accuracy	±1 ft (0.3 m)
Azimuth Field of View	±55° (10 dBsm target)
Elevation Field of View	±10° (10 dBsm target)
Angle Accuracy	±2° at ±10° FOV ±5° at ±30°FOV ±10° at ±40° FOV
Velocity Range	±20 mph (±9 m/sec)
Target Resolution	4.5 ft (1.4 m) for static targets approaching 1 ft (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	24.05 - 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	25G random all three axis
Protection Rating	IP69K

Applications

Heavy-duty object detection for Haul Trucks, Dump Trucks



Operating Modes

Detection Pattern	Configurable set based on model
Target Detection Time	240 ms
Power On to Active	240 ms

Communications Interface

J1939 CAN Bus	250 or 500 Kbits/second
Alarm Output	Switch to ground sink up to 1A Over current protected Inactive State - High Impedance
Data Update Rate	80 ms

Physical Characteristics

Sealing	IP69K
Housing Material	Polycarbonate radome
Dimensions	4.90" W x 4.06" H x 1.28" D (12.4 cm W x 10.3 cm H x 3.25 cm D)
Weight	1.0 lb (0.45 kg)
Mounting	Unit supplied with mounting hardware and can be mounted directly on equipment or by using an optional mounting bracket



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.



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