PreView Sentry®X

Featuring a Narrow Field of View for Specialised Applications







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 approach- ing 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

Frequency 24.05 - 24.25 GHz Power Supply 9 - 33 VDC | Reverse polarity and overvoltage protected Current <0.5 A</td> 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

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.

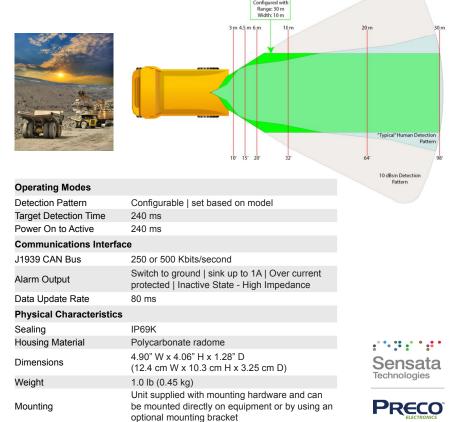
Enter the PreView Sentry X. Using the Sentry platform, PRECO has created a product with a narrower field of view designed to support all the same installation points as the original PreView Xtreme. The Sentry X adds a narrow field of view option to PRECO's latest product family – the global standard 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

Applications

Heavy-duty object detection for Haul Trucks, Dump Trucks



Authorised Importer and Master Distributor



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