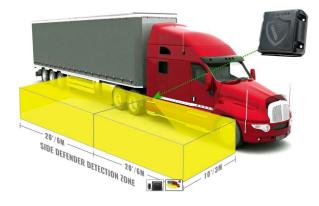
PREVIEW® SIDE DEFENDER

An Advanced Side Object Detection Solution







Tech Specs

Cycle Time

Measuring Performance	
Range	20' (6.1m) forward & aft of sensor (10dBsm target)
Range Accuracy	3m (Adjacent lane)
Azimuth Field of View	±75 degrees (10 dBsm target)
Elevation Field of View	±8 degrees (10 dBsm target)
Angle Accuracy	±2° @ ±10° FOV, ±5 @ ±30° FOV, ±10 @ ±75° FOV
Velocity Range	0.2 meter/sec (0.5 mph)
Target Resolution	1.4m for static targets, approaching 0.3 meters for dynamic targets

every cycle.)

120ms (A CAN bus target message is provided in

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	25G, random, all three axis
Protection Rating	IP69K

Description

PreView Side Defender, the industry's most advanced side object detection solution, has been developed specifically for the over-the-road (OTR) markets including trucking, municipalities, waste and recycling. According to independent research, the incidence of highway and urban collisions are rising by almost 10% per year. PRECO believes that this is unacceptable and is driven to design technology that assists heavy duty vehicle operators to mitigate these avoidable accidents. The Side Defender system actively warns operators with audible and visual alerts, in order for them to take the appropriate actions to mitigate collisions.

Additionally, it has the ability to integrate with telematics applications, vehicle control systems, vision systems or other sensors using industry standard communications. Industry standard CAN bus integration allows PreView Side Defender to read the vehicle's speed messages. Through this integration, the radar can operate intelligently in different detection modes:

Highway Mode: The system alerts operators of vehicles in the side blind zones while ignoring stationary objects such as guardrails to reduce nuisance alerts.

Slow-Speed Mode: PreView Side Defender is positioned to play an integral role in the emerging side turn assist applications, aimed specifically at reducing the incidence of collisions with pedestrians and cyclists in urban environments.

Features and Benefits

- · Frequency: 24Ghz
- · Detection range (fore/aft): 20'/6M forward and 20'/6M back/aft
- · Detection width: 10'/3M to 8M)
- · Current Draw: Less than .25 AMP
- 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
- · Built to meet rugged J1455 Specs
- · Utilizes standard CAN communication protocols (J1939, ISO 11898).

Applications

Operating Modes Target Detection Time

Trucking, municipalities, waste and recycling

300 ms

Power On to Active Time	300 ms	
Communications Interface		
J1939 CAN Bus	250Kbits/sec, un-terminated	
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	

Authorised Importer and Master Distributor



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