AUSPROTEC™

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SENTRY PREVIEW REAR DETECTION KITS

This PreView Sentry Deutsch Kit is a plug-and-play heavy-duty radar solution with a pre-configured sensor range. The kit comes with the FMCW 24GHz Sentry radar sensor, in-cab LED display module, 9m / 30' heavy-duty body harness with Deutsch connectors, and a 90° sensor mounting bracket. The PreView 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.







Features

- 24GHz Radar (up to 30m range)
- Tested to operate in extreme environments
- Extremely sealed at IP69K
- FMCW + Doppler (Pulse-Doppler)
- Programmable Field-of-View (tracking up to 16 targets)
- Intelligent processor – supports adaptable FOV, filtering algorithms, and communication message formats
- Smaller size allows more flexible mounting options, including flush mount
- Customizable CAN-bus integration
- Ideal for integration with vision systems

Reference: SBAP0617001

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Specifications

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Detection Ranges	0 - 30m (0-98')
Detection Width	2 - 8m (6.5-26')
Range Accuracy	0.3m
Transmitter Frequency	24 - 24.25 GHz
Voltage	9 - 32vdc
Current Draw	< 0.5A
Vibration	25G, random, all three axis
Shock	50G
IP Rating	IP69K
Compliance	Meets rugged J1455 specs
Operating Temperature	-40°C to +85°C
Detection Pattern	Fixed (Based on model number)
Target Detection Time	300ms
Azimuth Field of View	±75 degrees (10 dBsm target)
Elevation Field of View	±10 degrees (10 dBsm target)
Velocity Range	± 9 m/sec (± 20 mph)
Velocity Accuracy	0.2m/sec (0.5 mph)

Target Resolution	1.4m for static targets, approaching 0.3 m for dynamic targets
Cycle Time	120ms (A CAN bus target message is provided in every cycle)
J1939 CAN Bus	250 Kbits/sec, terminated with 120-ohm resistor
LED Interface	Switch to ground, sink up to 1A, over-current protected
Polarity	Reverse polarity and over-voltage protected
Housing (sensor)	Polycarbonate radome
Sensor Mount	Four 5.6mm (0.22") diameter mounting holes
Sensor Weight	0.45 kg (1.0 lb)
Sensor Dimensions (DxWxH)	3.25x12.4x10.3mm (1.28x4.9x4.06")
Harness	Deutsch Heavy Duty Braided Harness Assembly
Expandability	Expandable up to 4 sensors

Parts

APN: 13683	SENTRY H/D 1 SENSOR KIT 10M DEUTSCH LOOM EXPANDABLE 24GHZ
APN: 13685	SENTRY H/D 2 SENSOR KIT 10M DEUTSCH LOOM EXPANDABLE 24GHZ
APN: 13687	SENTRY H/D 4 SENSOR KIT 10M DEUTSCH LOOM EXPANDABLE 24GHZ
APN: 17024	TOOL PROGRAMMING PRECO V2 PREVIEW SYSTEM ST81DK

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