AUSPROTEC™

# Be aware of the surrounding area






## 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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