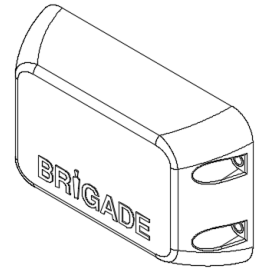
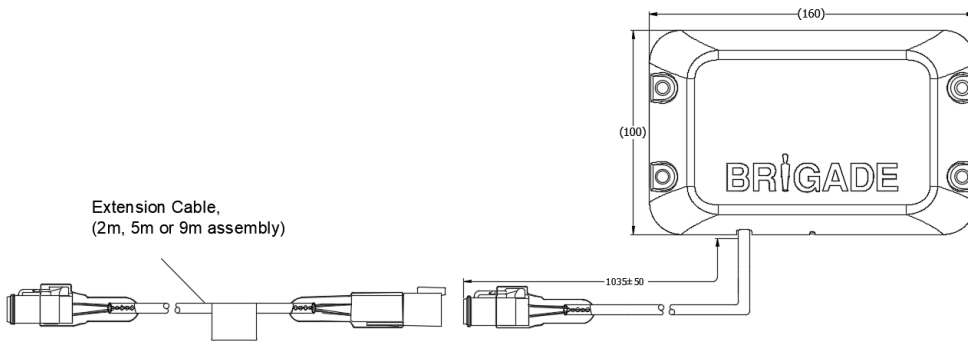


Product Specification



Brigade Model Number: BS-9100T | BS-9100
Brigade Part Number: 6350 | 6351



Note: extension cables are accessories to the BS-9100T, BS-9100.
These items are not included with the base product.

Dimensions: mm

Product Specification

Environmental Specifications:

- Shock Rating: 51 G
- Vibration Rating: 8.3 G (3 axis each 32 hr random)
- Sensor IP Rating: IP69K
- Connector IP Rating: IP67, IP66K
- Operating Temperature: -40 to +85°C
- Storage Temperature: -40 to +90°C

Approved Standards:

- CE - (Radio Equipment Directive 2014/53/EU, RoHS)
- UKCA - (Radio Equipment Regulation S.I. 2017/1206, RoHS)
- 'E' Mark - (UNECE Regulation 10 Revision 05)
- FCC - (47 CFR Part 15 Subpart B, 47 CFR Part 95M, 47 CFR Part 2.1091)
- ICES, ISED - (ICES-003 Issue 7 Class B, RSS-251 Issue 2 and RSS-Gen 5, RSS-102 Issue 5)
- Elements of ISO 16750:2012

Technical Specifications:

- Operating Voltage: 12V / 24 Vdc
- Current Consumption: ≤ 0.23 A @ 12 Vdc
- Power Consumption: ≤ 3.2 Watts
- Detection Area: 60 m Long, 16 m Wide
- Nominal Tolerance: ± 0.25 m
- Horizontal Detection Angle: $140 \pm 3^\circ$
- Vertical Detection Angle: $16 \pm 1^\circ$
- Reaction Time: ≤ 50 mSec (subject to object properties and proximity)
- Power to System Ready: ≤ 1.5 seconds
- Transmitter Type: FMCW
- Frequency: 77 GHz
- Communications Physical Layer: CAN Bus 2.0A
- Sensor Message Baud Rate: 500 kbits/s
- Simultaneous object detections (Max): 16 per sensor
- Installed Sensor Weight: 360 Grams
- Sensor Dimensions: 160 x 100 x 40 mm

Technical Specifications Continued...

- Connector Manufacturer / Part Number: Deutsch DT06-4S-CE06
- Wire Gauge to Vehicle Connections: 20 AWG
- Max. Bus Length (between terminations): 30m
- Max. Branch Length (Sensor to Bus): 1m
- Casing Material: ASA+PC, Black

Features:

- Up to 8 Sensors connected on a dedicated CAN network providing detection capability for up to 128 separate objects.
- Sensor network connects to customer-supplied host system enabling bespoke and wide ranging customer applications based on object detection data.
- Simple CAN message structure eases system integration to customer host.
- Terminated and non terminated sensor variants available for flexible CAN network layout
- Detected Object Parameters include:
 - X,Y position,
 - Polar Range and Angle
 - Relative Speed
 - Reflected Signal Power
 - Positive Detection Flag
- Frequency Modulated Continuous Wave Radar Technology (FMCW)
- Configuration Software based on MS Windows operating system versions 7 & 10
- Extremely Rugged Design

Package Contents:

- 1x BS-9100T or BS-9100 - CAN Radar Sensor
- 1x GENERIC-UG-SW-QG - SW Link Card
- 1x BS-FIX-02 - Radar Sensor Fixing Kit

Accessories:

- 2m Extension Cable, Male-Female
- 5m Extension Cable, Male-Female
- 9m Extension Cable, Male-Female
- 2m Power Input Cable, Female-Bare Ends
- Network Y-Cable, 300 mm
- Network Terminator, 120Ω, 150 mm
- Adjustable Bracket for BS-9100T, BS-9100 Radar (Optional)

Technical: +44(0) 1322 420347
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Specifications subject to change without notice

PS(6350, 6351)01 BS-9100T, BS-9100