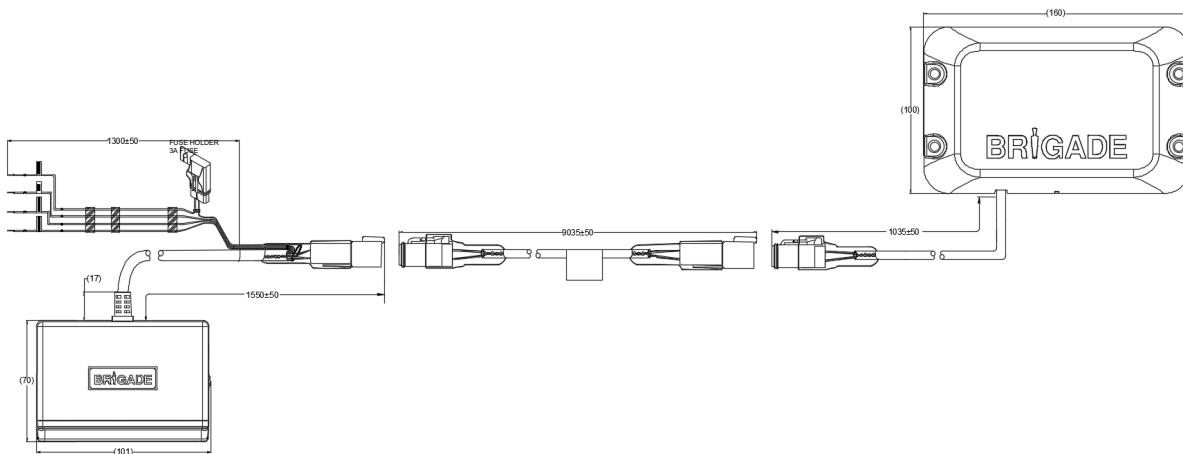


# Product Specification



Brigade Model Number:  
Part Number:

BS-8100  
(7135)



Dimensions: mm

## Product Specification

### Environmental Specifications:

- Shock Rating: 51 G
- Vibration Rating: 8.3 G (3 axis each 32 hr random)
- Display IP Rating: IP30
- Sensor / Sensor Connector IP Rating: IP69K / 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 Range: 12 / 24 Vdc
- Current Consumption: ≤ 0.8A
- Power Consumption: ≤ 8 Watts
- Detection Length: Programmable 3 m to 60 m
- Detection Width: Programmable 2 m to 16 m
- Nominal Tolerance: ± 0.25 m
- Horizontal Detection Angle: 140 ± 3°
- Vertical Detection Angle: 16 ± 1°
- Detection Zones: 5, Fully Configurable
- Detection Zone Lights: Green (furthest), Light Green, Yellow, Orange & Red (closest)
- Zone Light Brightness: >300 cd/m²
- System Reaction Time: ≤ 0.1 second (subject to object properties and proximity)
- Power to System Standby: ≤ 6 seconds
- System Standby to Active: ≤ 0.6 second
- Activation Input: 1
- Trigger Output: 1
- Transmitter Type: FMCW
- Frequency: 77 GHz

### Technical Specifications Continued...

- Display / Sensor / Cable Weight: 300 / 360 / 500 Grams
- Display with Bracket Dimensions: 101(W) x 71(H) x 70(D) mm
- Sensor Dimensions: 160(W) x 100(H) x 40(D) mm
- Cable Length Sensor / Display / Ext. Cable: 1035 ± 50 mm / 1550 ± 50 mm / 9035 ± 50 mm
- Connector Manufacturer / Part Number: Deutsch / DT-04-4P-CE02 and DT06-4S-CE06
- Max. Cable Distance Sensor to Display: 30000 mm
- Wire Gauge to Vehicle Connections: 20 AWG
- Casing Material & Colour: ASA+PC (Sensor) / ABS777E (Display) both Black

### Features:

- Easy to Programmable Detection Length, Width, Trigger Output Length, Blind Area & Cells and Buzzer Starting Zone via USB Socket
- Controlled Rectangular Shaped Detection Area
- BS-8100 Configuration Tool Software Based on Operating System Windows 7, 8, 10 & 11
- Frequency Modulated Continuous Wave Radar Technology (FMCW)
- Clear 5 Zone Visual and Audible Display
- Adjustable Buzzer Volume Range 70 to 90 dB(A) at 1 m, Frequency 2.8kHz
- High Ambient Light Conditions Usable Display with Removable Bracket and Adjustable 30° in all Directions
- Extremely Rugged Design

### Package Contents:

- 1x BS-8100D - LED Display & Bracket
- 1x BS-9100T - Radar Sensor & Fixings
- 1x BS-09DCX - 9m Cable
- 1x USB Cable - 1m Mini USB Cable
- 1x GENERIC-UG-SW-QG - Link Card

### Accessories:

- BKT-023 - Adjustable Bracket for BS-9100T Radar (Optional)
- BS-02DCX / BS-05DCX / BS-09DCX - Extension Cable 2m / 5m / 9m (Optional)