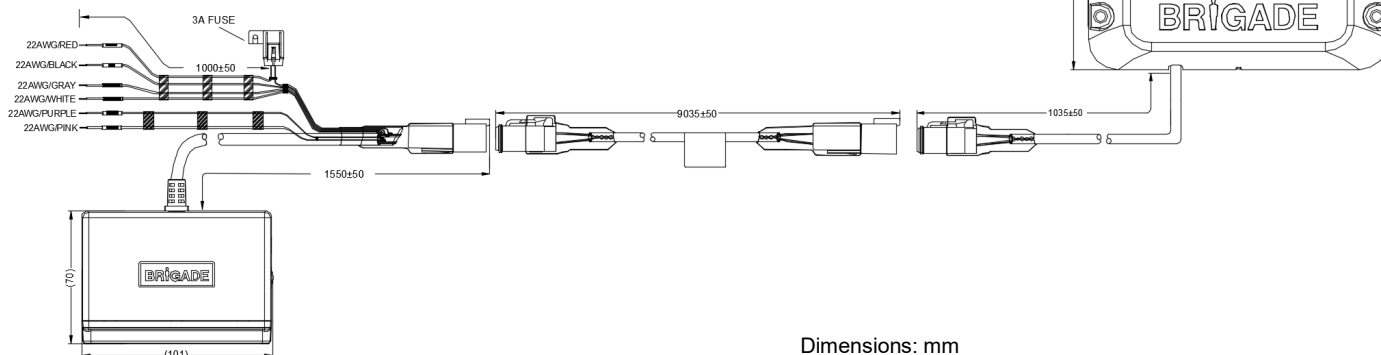


# Product Specification



**Brigade Model Number:** BS-7100  
**Part Number:** 7248



## 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 - (Electromagnetic Compatibility Directive 2014/30/EU, Radio Equipment Directive 2014/53/EU, RoHS)
- UKCA - (Electromagnetic Compatibility Regulations SI 2016/1091, Radio Equipment Regulation S.I. 2017/1206, RoHS)
- E-Mark - (UNECE Regulation 10 Revision 06)
- 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
- ISO 13766-1:2018 & ISO 13766-2:2018
- Can form part of an ISO 16001 compliant system

## Technical Specifications:

- Operating Voltage: 12V / 24 Vdc
- Current Consumption: ≤ 0.5A @ 12V
- Power Consumption: ≤ 8 Watts
- Detection Length: 3m, 4.5m, 6m (Selectable)
- Detection Width: 2.5m, 3.5m, 4.5m (Selectable)
- Nominal Tolerance: ± 0.25m
- Horizontal Detection Angle: 140° ± 3°
- Vertical Detection Angle: 16 ± 1°
- Detection Zones: 5, Fixed Equal Distance
- Detection Zone Lights: Green (furthest), Light Green, Yellow, Orange & Red (closest)
- Zone Light Brightness: >300 cd/m<sup>2</sup>
- 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
- Mode Selection Wires: 2
- Trigger Output: 1

## Technical Specifications Continued...

- Transmitter Type: FMCW
- Frequency: 77 GHz
- Display / Sensor / Cable Weight: 300 / 335 / 540 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 ± 50mm / 1550 ± 50mm / 9035 ± 50mm
- Connector Manufacturer / Part Number: Deutsch / DT-04-4P-CE02 and DT06-4S-CE06
- Max. Cable Distance Sensor to Display: 30000mm
- Wire Gauge to Vehicle Connections: 22 AWG
- Casing Material & Colour: ASA+PC (Sensor) / ABS777E (Display) both Black

## Features:

- Controlled Rectangular Shaped Beam Pattern
- Frequency Modulated Continuous Wave Radar Technology (FMCW)
- Clear 5 Zone Visual and Audible Display
- Adjustable Buzzer Volume Range  
62 to 86dB(A) at 1m, 12V  
70 to 92dB(A) at 1m, 24V  
Frequency 2.8kHz ± 300Hz
- LED Display is Usable in High Ambient Light Conditions with Removable Bracket and Adjustable 30° in all Directions
- Extremely Rugged Design

## Package Contents:

- 1x BS-7100D - LED Display & Bracket
- 1x BS-9100T - Sensor & Fixings
- 1x BS-09DCX - 9m Cable
- 1x BS-7100-QSC - Quick Start Card

## Accessories:

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