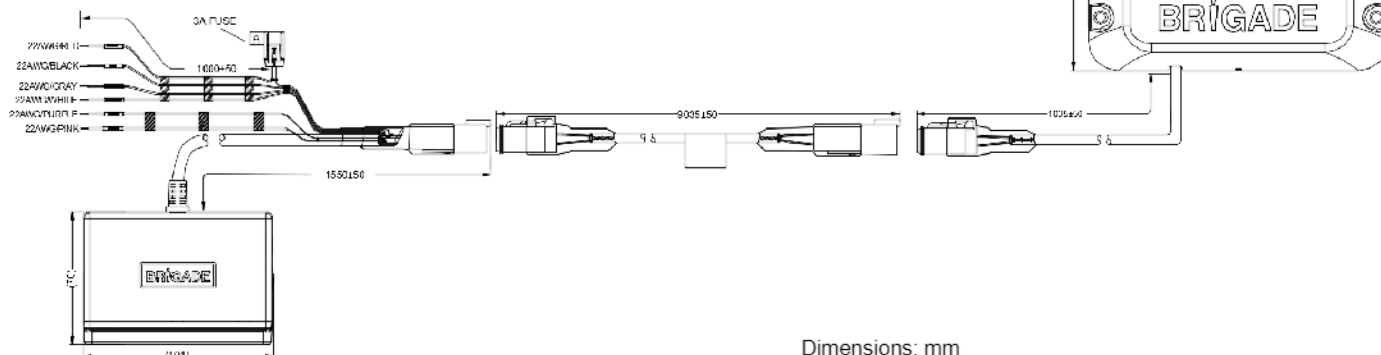


Product Specification



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



Dimensions: mm

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: $\leq 0.5A$ @ 12V
- Power Consumption: ≤ 8 Watts
- Detection Length: 3m, 4.5m, 6m (Selectable)
- Detection Width: 2.5m, 3.5m, 4.5m (Selectable)
- Nominal Tolerance: $\pm 0.25m$
- Horizontal Detection Angle: $140^\circ \pm 3^\circ$
- Vertical Detection Angle: $16 \pm 1^\circ$
- Detection Zones: 5, Fixed Equal Distance
- 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
- 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 \pm 50mm / 1550 \pm 50mm / 9035 \pm 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 \pm 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)

Technical: +44(0) 1322 420347
www.brigade-electronics.com

Specifications subject to change without notice

PS(7248)01 BS-7100

