

Obstacle Detection

- Detects up to 16 moving and stationary objects.
- High frequency continuous wave provides increased reliability & low false alarm rates.
- Effective through non-metallic surfaces e.g. plastic & fibreglass.
- BS-8100 model has adjustable detection range – 60m to 3m.
- Self-diagnostic function.
- Rugged cable system withstands harsh environmental conditions.
- In-cab 5 stage audible & visual alert.
- Auxiliary output to activate additional items, e.g. cameras, alarms etc.
- Transient, short circuit, overcharge & reverse polarity protection.
- Epoxy filled for maximum vibration resistance.
- Environmentally sealed sensor – IP69K.
- Sensor can be steam & pressure cleaned.
- Multi-voltage.
- 3-year warranty.



Backsense Radar

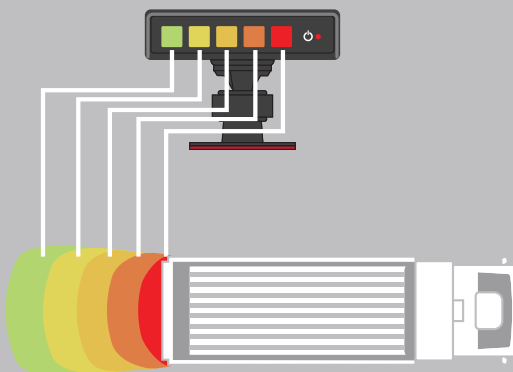
Voltage :		12–24V
Current Draw :		0.8A
Radar Frequency :		77GHz
Auxiliary Output :		0.5A
Weight :	Sensor	0.36kg
	Display	0.3kg
Vibration :		8.3G
Shock :		51G
EMC :		CE & 'e' marked
Approvals :		ISO 16750/13766, EN13309 & FCC
Operating Temperature :		-40°C to 85°C
Ingress Protection :	Sensor	IP69K



In-Cab Audible & Visual Display

When an object is detected, the in-cab display LEDs illuminate and an audible alert will sound.

Each LED represents approximately 1/5 of the detection distance.



Smaller & Faster

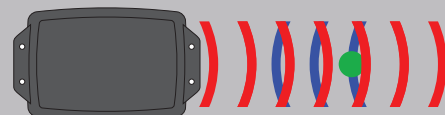
The upgraded Brigade Backsense Radar is now 30% smaller than its predecessor. With the introduction of a 77GHz frequency, it boosting it's detection speed by five times and incorporates other significant improvements in performance:

- Reaction time reduced to 100ms from 500ms
- Detection range increased to 60m from 30m
- Detection width expanded to 16m from 10m
- Can now detect up to 16 objects, up from 8

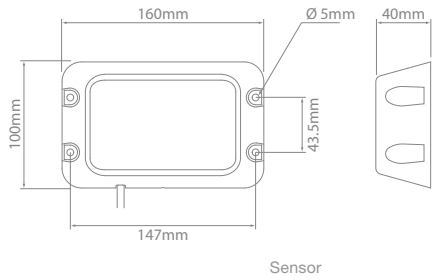
New Backsense
30% Smaller
5 x Quicker Detection



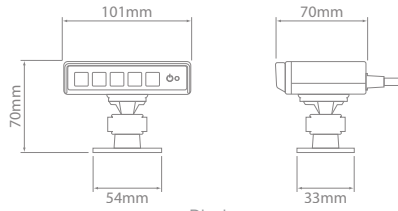
Original
Backsense



Obstacle Detection



Sensor



Display



▶ Watch video

Backsense Radar – Kits

Part No.	Type	Detection Distance (m)	Detection Width (m)	Detection Zones	Kit Contents:
BS-7100	Fixed Range	3 / 4.5 / 6	2.5 / 3.5 / 4.5	5	1x Sensor unit 1x Audio/visual display 1x 9m Cable (sensor to display) Sensor & display mounting hardware Installation & operation manual USB Cable
BS-8100	Configurable	3 – 60	2 – 16	Configurable	



BS-61B



Extension Cable



Display



Sensor

Backsense Radar – Accessories & Spare Parts

Part No.	Description
BS-61B	Adjustable sensor bracket Supplied with bolts, washers and nylock nuts.
BS-05DCX	Extension Cable – 5m
BS-09DCX	Extension Cable – 9m
BS-25DCSX	Extension Cable – 25m
BS-8100D	Display – Configurable
BS-9100	Sensor – Configurable