

[BSS20]

# Microwave Smart Detector

Counterterror and Security for critical infrastructure such power plant and airport.  
High reliability for detecting terrorists by 3D microwave.



BSS20, Microwave Smart Detector is an intruder detection sensor using 24GHz microwave.

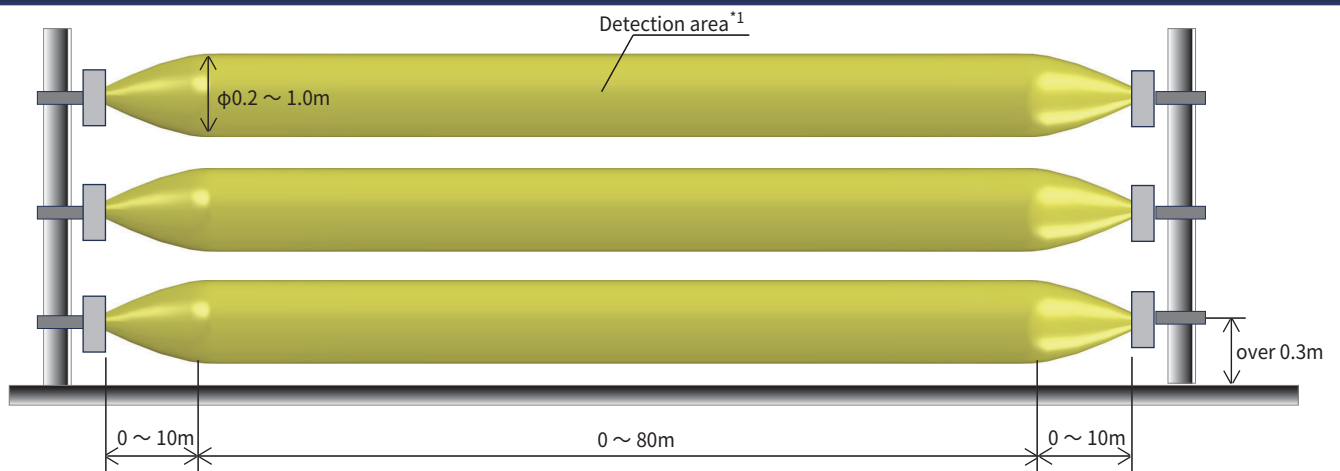
The sensor will detect intruder by intercepting activated detection area consisted by multiple opposite line Tx/Rx.

※Compliant with ARIB STD-T73

## <Advantages and features of the product>

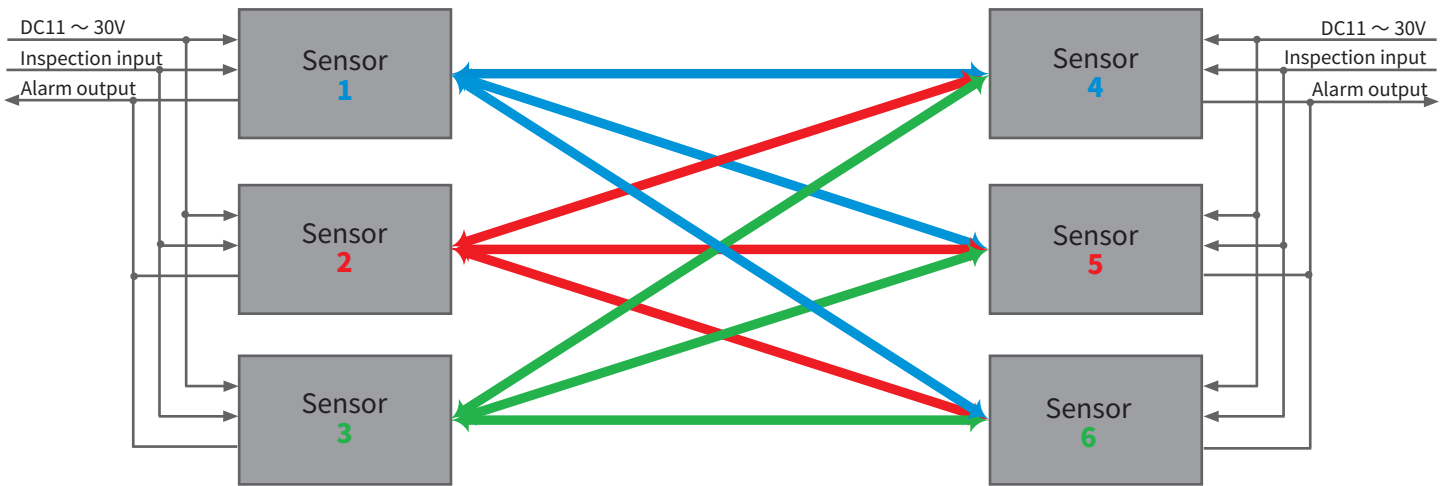
- |   |  |
|---|--|
| <b>1</b> Strong to out-door environments<br>Keeping reliability against environmental changes such as rain,wind,snow,and fog. | <b>3</b> Consideration is unnecessary for the place of installation<br>Such as along the wall, and over the fence. |
| <b>2</b> Easy adjustment of equipment<br>Unnecessary adjustment of beam-axis.   | <b>4</b> Building detection wall by 3D microwave<br>Building detection wall by 4 stacked sensors maximum.          |

Example of monitoring (3 stacked sensors) ※Up to stacking 4 sensors is possible



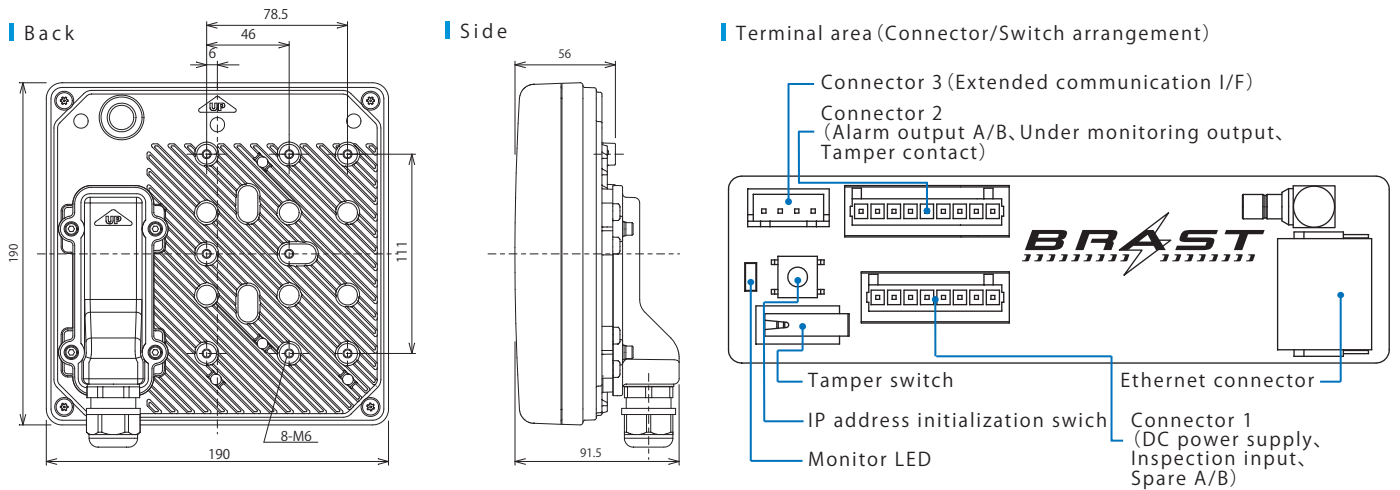
※1 .Alarm area may change in activated detection area according to environment of place of installation.

Configuration of 3 stacked sensors ※Maximum 4 sensors are capable



Outline drawing

● Outline drawing/Scale (unit:mm)



Specification

Model	BSS20
Detection method	Opposite line microwave beam intercept detection method
	Compliant with ARIB STD-T73
Oscillation frequency	24.05~24.25GHz
Oscillation output power	10mW max.
Number of frequency channel	Standard band:80CH (per 1 unit 8CH×10 total units) Extended band:240CH (per 1 unit 8CH×30 total units)
Maximum number of multiple links	1:4 ※number of links and cannels are set at shipment
Possible number of units for simultaneous operation	40 units ※possible detective insight distance is 400m
Detection area	Detection width:φ0.2~1.0m (changes according to installation environment) Separation of units installed:5~100m
Outer drawing	190(W)×196(H)×92(D)mm
Material	Radome: AES (weather-proof resin) Backside cover: Alminium
Weight	below 2.0kg

Power supply	DC type: DC11~30V (polar) PoE type: IEEE802.3af compliant
Consumption power	Typ. 7.5W (Max. 15W)
Operating ambient temperature	-20~60°C (No freezing and condensation)
Storage ambient temperature	-30~75°C (No freezing and condensation)
Level of water protection	IP67 (dust-proof immersion) • adapted outline of cable: φ8.5~14 (1 hole) • adapted outline of connector: below φ14 (Conforming to RJ-45 plug)
I/F	Alarm output×2, Under monitoring output×1 Tamper output×1 Inspection input×1 Ethernet (100Base-Tx/10Base-T)

■ The specification may change without notice.