

BSS Reader 2G 0255 (BSS255R)

TeraTron GmbH, Martin-Siebert-Str. 5, 51647 Gummersbach

Technical Data

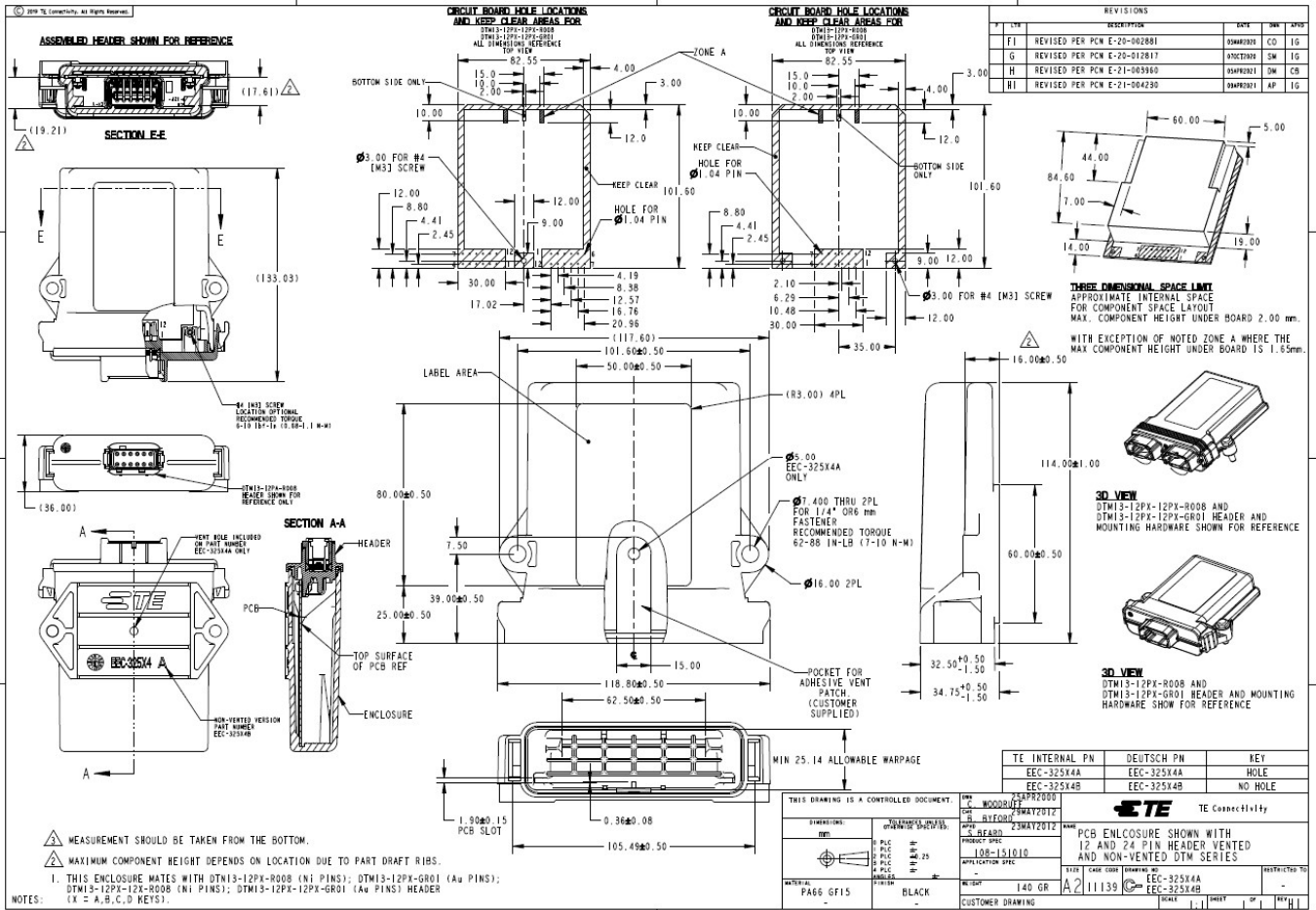
Safety field system Control unit 2G (BSS255R)	
Power supply	10-32V DC
Current consumption	max. 1A @ 12V
Outputs LF-Antennas	Operation frequency: 2x125kHz, alternating Power (RF output) 2x -11 dBm EIRP (mean), alternating
Relay outputs capability (2x Semiconductor relays)	max.+36V DC / max. 5A DC (terminal 87/87a functionality only, no PCB internal connection to GND or supply)
Interface-CAN	CAN-Open, speed: 250 kBaud, UDS – diagnostic, Node ID 6
Interface-HF	Operation frequency: 2.4 GHz ISM-Band Frequency channels: 2.400 to 2.4835 GHz Power (RF Output): +8.4 dBm EIRP (mean) Antenna: external roof screw mount, 50 Ω impedance
Operating temperature range	-40°C - +85°C
Storage temperature range	-40°C - +85°C
Degree of protection by enclosure	IP 67
Operating area	Indoor / outdoor installation
Dimension (L x B x H)	133 mm x 119 mm x 36 mm
Weight	255 g
Housing:	Deutsch – EEC-325X4A
Connector:	Deutsch – DTM13-12PC – R008
Ret Sleeve:	Type – C - green Tyco-No.: 1011-054-1205
Antenna Connector:	Type FAKRA, Coding I, beige, 5677.SMBA.1112149
Antenna	MCA 2458 S
Goretex-Membrane:	Donaldson – P513622
Item number TeraTron	90000758
Item number Bomag	05763468
Note:	The product communicates with the transmitter via 2.4 GHz, while the 125 kHz field is active.

Pin assignment

Pin	Assignment
1	Terminal 15
2	GND
3	CAN High
4	CAN Low
5	IN terminal 87 rear direction
6	OUT terminal 87a rear direction
7	OUT terminal 87a front direction
8	IN terminal 87 front direction
9	125kHz Antenna rear direction
10	125kHz Antenna rear direction
11	125kHz Antenna front direction
12	125kHz Antenna front direction

Revision	Datum	Erstellt	Freigegeben	Kapitel	Seite	BSS255R_Datasheet_v1.2.docx
1.2	31.05.2023	RHE			1 von 4	

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1.2	31.05.2023	RHE			2 von 4	

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Compliance Statements

Compliance Statements FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Model: BSS255R
FCC ID: QLXBSS255R
Brand: TeraTron

Compliance Statements IC

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Model: BSS255R
IC ID: 4430A-BSS255R
Brand: TeraTron

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Installation and service

- The device is for professional use only and Installation and service of the BSS255R shall be done by authorized service personnel only.
- The device must be operated only with the following antenna:
Hirschmann Mobility MCA 2458 S, max allowed gain: 3.6 dBi



- The device is to be used or installed only for BOMAG equipment.
- The device is only sold through BOMAG authorized dealers, who sell the product to other businesses.
- Due to safety reasons and the nature of the product in which the device will be built-in, the device will be delivered already installed in the BMP8500.
- In case of any spare part need in the future, it will be only provided by BOMAG dealer and installed by licensed professional trained by BOMAG.

Disposal

The end customer has to care for proper disposal of the device.



Manufacturer

BSS255R is a product of

TeraTron GmbH
Martin-Siebert-Str. 5
D-51647 Gummersbach
Germany

Brand declaration on PCB:

„TeraTron“
„0255.01.xx“

Technical changes reserved.

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