

PROFIBUS-PA IP67 junction box, 6-channel JBBS-48-E613/EX



The 6-channel Ex junction box JBBS-48-E613/EX is designed for PROFIBUS-PA systems.

The housing is made of powder-coated diecast aluminium and is IP67 rated.

The junction box is equipped with an activatable terminating resistor for the bus. The switch is integrated in the housing on the board. Condensation in the housing is prevented by a breather.

Shielding and housing can be conected directly via a second switch which is also located on the board.

Note: It must be ensured that there is sufficient equipotential bonding in the system. The device is connected to the equipotential bonding via the housing's M5 x 1 grounding bold.



- Junction box for wall mounting with stainless steel M12 flange connections
- Integrated terminating resistor (activatable)
- Cable shielding: Capacitive or direct connection to housing potential selectable via switch
- Isolated support terminal for optional protective conductor incorporated in cable
- Powder-coated die-cast aluminium housing
- Pressure compensation element protects against condensation
- Connection of the housing potential via M5 x 1 bolt
- Entity and FISCO compliant according to IEC 60079-11



ID 6611403 Fieldbus standard IEC 61158-2 Operating voltage 932 VDC Ex approval acc. to conformity certificate PTB 03 ATEX 2236 Device designation © II 2 (1) G Ex ia [ia Ga] IIC T4 Gb Device marking © II 2 (1) G Ex ia [ia IIC Da] IIB T4 Gb Extra proval acc. to conformity certificate PTB 03 ATEX 2236 Device marking © II 2 (1) G Ex ia [ia IIC Da] IIB T4 Gb Extra proval acc. to conformity certificate FISCO / Entity field device Entity Parameter Max. output voltage U, < 24 V Max. output voltage U, < 250 mA Max. unput ower P, < 2560 mW FISCO Parameter according to IEC 60079-11 Max. output ower P, < 2560 mW FISCO parameter according to IEC 60079-11 Max. output ower P, < 5520 mW Max. input ower P, < 5520 mW Max. input ower P, < 5320 mW Max. input ower P, < 5320 mW Max. input ower P, < 5320 mW <th>Туре</th> <th>JBBS-48-E613/EX</th>	Туре	JBBS-48-E613/EX
Operating voltage 932 VDC Ex approval acc. to conformity certificate PTB 03 ATEX 2236 Device designation © II 2 G Ex ib IIC T4 Gb Device marking © II 2 (1) G Ex ia [ia Ga] IIC T4 Gb © II 2 (1) G Ex ia [ia IIIC Da] IIB T4 Gb © II 2 (10) G Ex ia [ia IIIC Da] IIB T4 Gb III 2 (10) G Ex ia [ia IIIC Da] IIB T4 Gb © III 2 (10) G Ex ia [ia IIIC Da] IIB T4 Gb Max. Output voltage U, ≤ 24 V Max. output voltage U, ≤ 250 mA Max. input current I, ≤ 250 mA Max. input current I, ≤ 250 mA Max. input rourent I, ≤ 250 mA Max. output voltage U, ≤ 24 V Max. input current I, ≤ 250 mA Max. output current I, ≤ 250 mA Max. output voltage U, ≤ 250 mA Max. output voltage U, ≤ 250 mA Max. output voltage U, ≤ 250 mA Max. output current I, ≤ 380 mA Max. output voltage U, ≤ 17.5 V Max. input power P, ≤ 5320 mW External inductance/capacitance L/C, trunk (in/out): negligible / ≤ 0.02 nF per field circuit: negligible / ≤ 0.00 nF <td></td> <td>6611403</td>		6611403
Operating voltage 932 VDC Ex approval acc. to conformity certificate PTB 03 ATEX 2236 Device designation © II 2 G Ex ib IIC T4 Gb Device marking © II 2 (1) G Ex ia [ia Ga] IIC T4 Gb © II 2 (1) G Ex ia [ia IIIC Da] IIB T4 Gb © II 2 (10) G Ex ia [ia IIIC Da] IIB T4 Gb III 2 (10) G Ex ia [ia IIIC Da] IIB T4 Gb © III 2 (10) G Ex ia [ia IIIC Da] IIB T4 Gb Max. Output voltage U, ≤ 24 V Max. output voltage U, ≤ 250 mA Max. input current I, ≤ 250 mA Max. input current I, ≤ 250 mA Max. input rourent I, ≤ 250 mA Max. output voltage U, ≤ 24 V Max. input current I, ≤ 250 mA Max. output current I, ≤ 250 mA Max. output voltage U, ≤ 250 mA Max. output voltage U, ≤ 250 mA Max. output voltage U, ≤ 250 mA Max. output current I, ≤ 380 mA Max. output voltage U, ≤ 17.5 V Max. input power P, ≤ 5320 mW External inductance/capacitance L/C, trunk (in/out): negligible / ≤ 0.02 nF per field circuit: negligible / ≤ 0.00 nF <td></td> <td></td>		
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FISCO / Entity field deviceEntity ParameterMax. output voltage U, \leq 24 VMax. output current I, \leq 250 mAMax. input voltage U, \leq 24 VMax. input voltage U, \leq 24 VMax. input voltage U, \leq 24 VMax. input current I, \leq 250 mAMax. input current I, \leq 250 mAMax. output voltage U, \leq 17.5 VMax. output current I, \leq 380 mAMax. output current I, \leq 380 mAMax. output power P, \leq 5320 mWMax. input current I, \leq 380 mAMax. input power P, \leq 5320 mWMax. input power P, \leq 5320 mWExternal inductance/capacitance L/C,trunk (in/out): negligible / \leq 0.00 nF per field circuit: negligible / \leq 5.00 nFElectrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line $6 \times M12$ - femaleEarthing boltM5 x 1Protection classIP67 MTTFMTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature $-30+70^\circ$ CHousing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions $64 \times 185.5 \times 45$ mm		🐵 II 2 (1D) G Ex ia [ia IIIC Da] IIB T4 Gb
Entity Parameter Max. output voltage U, \leq 24 V Max. output current I, \leq 250 mA Max. output power P, \leq 260 mW Max. input voltage U, \leq 24 V Max. input current I, \leq 250 mA Max. input power P, \leq 250 mA Max. input outpress 2660 mW FISCO parameter according to IEC 60079-11 Max.output voltage U, Max. output current I, \leq 380 mA Max. output current I, \leq 380 mA Max. input voltage U, \leq 17.5 V Max. output current I, \leq 380 mA Max. input obver P, \leq 5320 mW Max. input oltage U, \leq 17.5 V Max. input power P, \leq 5320 mW External inductance/capacitance L/C, trunk (in/out): negligible / \leq 5.00 nF per field circuit: Segment IN 1 x M12 - female		🐵 II 2 (2D) G Ex ib [ib IIIC Db] IIB T4 Gb
Max. output voltage U, $\leq 24 \text{ V}$ Max. output current I, $\leq 250 \text{ mA}$ Max. input power P, $\leq 260 \text{ mW}$ Max. input current I, $\leq 250 \text{ mA}$ Max. input current I, $\leq 250 \text{ mA}$ Max. input power P, $\leq 2560 \text{ mW}$ FISCO parameter according to IEC 60079-11Max. output voltage U, $\leq 17.5 \text{ V}$ Max. output current I, $\leq 380 \text{ mA}$ Max. output power P, $\leq 5320 \text{ mW}$ Max. input voltage U, $\leq 17.5 \text{ V}$ Max. output current I, $\leq 380 \text{ mA}$ Max. input oblage U, $\leq 17.5 \text{ V}$ Max. input outgage U, $\leq 17.5 \text{ V}$ Max. input outgage U, $\leq 17.5 \text{ V}$ Max. input outgare U, $\leq 17.5 \text{ V}$ Max. input outgare U, $\leq 17.5 \text{ V}$ Max. input power P, $\leq 5320 \text{ mW}$ External inductance/capacitance L/C,trunk (in/out): negligible / $\leq 5.00 \text{ nF}$ per field circuit: negligible / $\leq 5.00 \text{ nF}$ per field circuit: negligible / $\leq 5.00 \text{ nF}$ Segment IN1 x M12 - traneleSegment OUT1 x M12 - tranaleSegment OUT1 x M12 - ternaleSpur line $6 \times M12$ - ternaleEarthing boltM5 x 1Protection classIP67MTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature $-30+70 °C$ Housing colorBlack/yellowDimensions $64 \times 185.5 \times 45 \text{ mm}$		FISCO / Entity field device
Max. output current I, \leq 250 mAMax. output power P, \leq 2660 mWMax. input current I, \leq 24 VMax. input current I, \leq 250 mAMax. input current I, \leq 250 mAMax. input current I, \leq 250 mAMax.output voltage U, \leq 17.5 VMax.output voltage U, \leq 17.5 VMax.output current I, \leq 380 mAMax.output current I, \leq 380 mAMax.output power P, \leq 5320 mWMax.input current I, \leq 380 mAMax.input current I, \leq 5320 mWExternal inductance/capacitance L/C,trunk (in/out): negligible / \leq 0.0 nFper field circuit: negligible / \leq 0.82 nF Σ Field circuit: negligible / \leq 0.00 FElectrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line $6 \times M12$ - femaleEarthing boltM5 x 1Protection classIP67 MTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature -30+70 °C-30+70 °CHousing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions $64 \times 185.5 \times 45$ mm	Entity Parameter	
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Max. input voltage U, $\leq 24 \text{ V}$ Max. input current I, $\leq 250 \text{ mA}$ Max. input power P, $\leq 2560 \text{ mW}$ FISCO parameter according to IEC 60079-11Max. output voltage U, $\leq 17.5 \text{ V}$ Max. output current I, $\leq 380 \text{ mA}$ Max. output current I, $\leq 380 \text{ mA}$ Max. output power P, $\leq 5320 \text{ mW}$ Max. input oltage U, $\leq 17.5 \text{ V}$ Max. input outrage U, $\leq 17.5 \text{ V}$ Max. input current I, $\leq 380 \text{ mA}$ Max. input power P, $\leq 5320 \text{ mW}$ External inductance/capacitance L/C,trunk (in/out): negligible / $\leq 0.00 \text{ nF}$ per field circuit: negligible / $\leq 0.82 \text{ nF}$ $\Sigma Field circuit:negligible / \leq 5.00 \text{ nF}Electrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line6 \times M12 - femaleEarthing boltM5 x 1Protection classIP67MTTFMTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperatureHousing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions64 \times 185.5 \times 45 \text{ mm}$	Max. output current I。	≤ 250 mA
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Max. input power P. $\leq 2560 \text{ mW}$ FISCO parameter according to IEC 60079-11Max.output voltage U, $\leq 17.5 \text{ V}$ Max. output current I, $\leq 380 \text{ mA}$ Max. input voltage U, $\leq 17.5 \text{ V}$ Max. input voltage U, $\leq 17.5 \text{ V}$ Max. input current I, $\leq 380 \text{ mA}$ Max. input current I, $\leq 380 \text{ mA}$ Max. input current I, $\leq 380 \text{ mA}$ Max. input power P, $\leq 5320 \text{ mW}$ External inductance/capacitance L/C,trunk (in/out): negligible / $\leq 5.00 \text{ nF}$ per field circuit: negligible / $\leq 0.82 \text{ nF}$ $\Sigma Field circuits:negligible / \leq 5.00 \text{ nF}Electrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line6 \text{ x M12} - femaleEarthing boltM5 x 1Protection classIP67MTTFMTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature-30+70 °CHousing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions64 \times 185.5 \times 45 \text{ mm}$	Max. input voltage U	\leq 24 V
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Max. output current I, \leq 380 mAMax. output power P, \leq 5320 mWMax. input voltage U, \leq 17.5 VMax. input current I, \leq 380 mAMax. input power P, \leq 5320 mWExternal inductance/capacitance L/C,trunk (in/out): negligible / \leq 5.00 nF per field circuit: negligible / \leq 0.82 nF Σ Field circuits: negligible / \leq 0.00 nFElectrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line $6 \times M12$ - femaleEarthing boltM5 x 1Protection classIP67 MTTFMTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature-30+70 °CHousing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions $64 \times 185.5 \times 45$ mm	FISCO parameter according to IEC 60079-11	
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Max. input current I, \leq 380 mAMax. input power P, \leq 5320 mWExternal inductance/capacitance L/C,trunk (in/out): negligible / \leq 5.00 nF per field circuit: negligible / \leq 0.82 nF Σ Field circuits: negligible / \leq 5.00 nFElectrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line6 x M12 - femaleEarthing boltM5 x 1Protection classIP67 MTTFMTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature Housing material-30+70 °C Powder-coated die-cast aluminium Housing colorHousing colorBlack/yellow DimensionsDimensions64 x 185.5 x 45 mm	Max. output power P _o	\leq 5320 mW
Max. input power P, \leq 5320 mWExternal inductance/capacitance L/C,trunk (in/out): negligible / \leq 5.00 nF per field circuit: negligible / \leq 0.82 nF Σ Field circuits: negligible / \leq 0.80 nFElectrical connectionM12 receptacleSegment IN1 x M12 - maleSegment OUT1 x M12 - femaleSpur line6 x M12 - femaleEarthing boltM5 x 1Protection classIP67MTTF705 years acc. to SN 29500 (Ed. 99) 40 °CAmbient temperature-30+70 °CHousing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions64 x 185.5 x 45 mm	Max. input voltage U	≤ 17.5 V
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Protection class IP67 MTTF 705 years acc. to SN 29500 (Ed. 99) 40 °C Ambient temperature -30+70 °C Housing material Powder-coated die-cast aluminium Housing color Black/yellow Dimensions 64 x 185.5 x 45 mm		
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Ambient temperature -30+70 °C Housing material Powder-coated die-cast aluminium Housing color Black/yellow Dimensions 64 x 185.5 x 45 mm	Protection class	IP67
Housing materialPowder-coated die-cast aluminiumHousing colorBlack/yellowDimensions64 x 185.5 x 45 mm	MTTF	705 years acc. to SN 29500 (Ed. 99) 40 °C
Housing color Black/yellow Dimensions 64 x 185.5 x 45 mm	Ambient temperature	-30+70 °C
Dimensions 64 x 185.5 x 45 mm	Housing material	Powder-coated die-cast aluminium
	Housing color	Black/yellow
Connection mode Wall mounting	Dimensions	64 x 185.5 x 45 mm
	Connection mode	Wall mounting





