

BL67 Electronic Module 2 RFID Channels (HF/UHF) BL67-2RFID-A



Туре	BL67-2RFID-A
ID	6827225
Number of channels	2
Supply voltage	24 VDC
Nominal voltage V	24 VDC
Nominal current from field supply	≤ 100 mA
Nominal current from module bus	≤ 30 mA
Power dissipation, typical	≤ 1 W
Transmission rate	115.2 kbps
Cable length	50 m
Electrical isolation	isolation of electronics and field level via optocou-
	plers
Output connectivity	M12
Output connectivity	IVI I Z
Sensor supply	0.5 A per channel, short-circuit proof
Dimensions (W x L x H)	32 x 91 x 59 mm
Approvals	CE, cULus
Ambient temperature	-40+70 °C
Storage temperature	-40+85 °C
Relative humidity	595 % (internal), level RH-2, no condensation
	(when stored at 45 °C)
Vibration test	Acc. to EN 61131
- up to 5 g (at 10 to 150 Hz)	for mounting on DIN rail no drilling according to EN
	60715, with end bracket
- up to 20 g (at 10 up to 150 Hz)	for mounting on base plate or machinery Therefore
	every second module has to be mounted with two
	screws each.
Shock test	Acc. to IEC 60068-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	Acc. to EN 61131-2
Protection class	IP67
MTTF	212 years acc. to SN 29500 (Ed. 99) 40 °C
Tightening torque fixing screw	0.91.2 Nm

- This module is used with the BL67-GW-DPV1
- Protection class IP67
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- Connection of two BL ident read/write heads
- Mixed operation of HF and UHF read/write heads
- Transmission rate: 115.2 kbps
- Cable length max. 50 m

Functional principle

BL67 electronic modules are plugged on the purely passive base modules which in turn are connected to the field devices. The separation of connection level and electronics simplifies maintenance considerably. Flexibility is enhanced because the user can choose between base modules with different connection technologies.

The electronic modules are completely independent of the higher level fieldbus through the use of gateways.



Compatible base modules

Dimension drawing	Туре	Pin configuration
	BL67-B-2M12 6827186 2 x M12, 5-pole, female, a-coded Comments Matching connection cable (for example): RK4.5T5-RS4.5T/S2500 Ident-No. 6699201	$\begin{array}{c} \dots/S2500 \text{ Connectors} \\ (\\ 2 \\ 1 = BN (+) \\ 2 = BK (Data) \\ 3 = BU (GND) \\ 4 = WH (Data) \\ 5 = shield \end{array}$ $\begin{array}{c} \dots/S2501 \text{ Connectors} \\ (\\ 2 \\ 1 = BN (+) \\ 2 = WH (Data) \\ 3 \\ 3 = BU (GND) \\ 4 = BK (Data) \\ 5 \\ 5 \\ 4 \\ 5 \\ 5 \\ 6 \\ 5 \\ 6 \\ 5 \\ 6 \\ 5 \\ 6 \\ 5 \\ 5$

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LED display

LED	Color	Status	Meaning
D		OFF	No error message or diagnostics active.
	RED	ON	Failure of module bus communication. Check if more than 2 adja-
			cent electronic modules are pulled. Relevant modules are located
			between gateway and this module.
	RED	FLASHING (0.5 Hz)	Upcoming module diagnostics
RW0 / RW1		OFF	No tag, no active diagnostics
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head error
	RED	FLASHING (2 Hz)	Short-circuit in the supply line of read/write head

Compatible gateways

ID	Туре	Communication	Version and	Application
			higher	
6827232	BL67-GW-DPV1	PROFIBUS-DP	FW 1.10	Siemens PLC systems with Profibus DPV1 master and PIB (Proxy Ident
				Block) function block. The PIB is required for controlling the RFID system
				and uses internally acyclic services.
6827214	BL67-GW-EN	Modbus TCP	FW 3.0.2.0	Siemens PLC systems with PROFINET master. (Modbus TCP and Ether-
		PROFINET		Net/IP are not supported by the BL20-2RFID-A)
		EtherNet/IP		
Compatible	CODESYS V3 program	mable gateways		
ID	Туре	Communication	Version and	Application
			higher	
6827394	BL67-PG-EN-V3	Modbus TCP	FW V1.0.7.0	PLC systems with Modbus TCP master or PC-based solutions using a
		PROFINET		Modbus driver software.
		EtherNet/IP		PLC systems with EtherNet/IP scanner (master).
				PLC systems with PROFINET master.
100000041	BL67-PG-EN-V3-WV	Modbus TCP	FW 1.0.7.0	PLC systems with Modbus TCP master or PC-based solutions using a
		PROFINET		Modbus driver software.
		EtherNet/IP		PLC systems with EtherNet/IP scanner (master).
				PLC systems with PROFINET master.
The CODES	SYS programmable gatew	ays can be used for qui	ck and decentralize	d preprocessing or as a stand-alone solution. The CODESYS PIB (Proxy Iden
Block) funct	ion block is required in ev	ery case. The library wit	h the PIB is include	d in the CODESYS target files.