

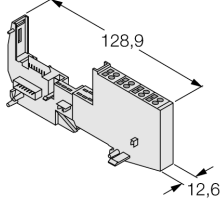
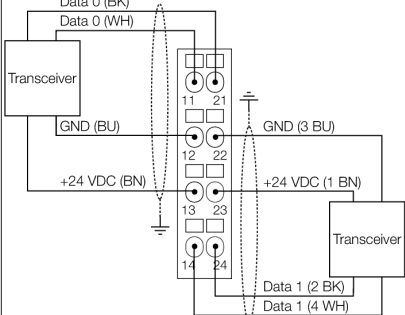
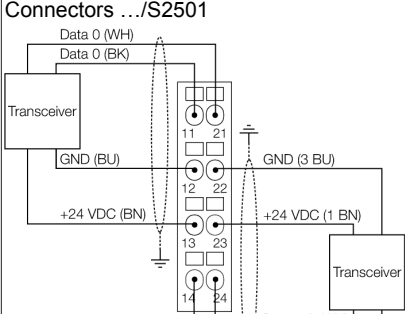
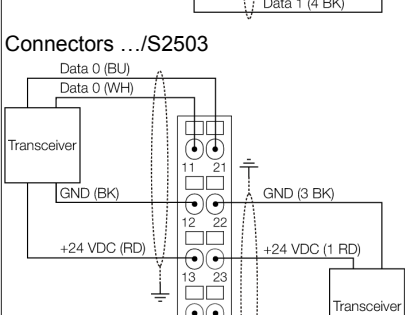
- A special software (function module) for integration in PLC systems is not required.
- 8 byte user data per read/write cycle
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- Connection of 2 BLident read/write heads (HF or UHF)
- Mixed operation of HF and UHF read/write heads
- Transmission rate: 115.2 kbps
- Cable length: 50 m max.

Functional principle

BL ident® solutions can be adapted to different system structures. Numerous fieldbus standards, such as PROFIBUS-DP, EtherNet/IP, Ethernet Modbus TCP, DeviceNet, CANopen and PROFINET IO enable a flexible integration. Simple BL ident® electronic modules (BL20-2RFID-S, BL67-2RFID-S) can be mounted in existing control or host systems, as standard input and output process data are used for communication. Programmable gateways with periferal pre-processing to relieve the higher-level control and bus system. Premounted sets (2, 4, 6 or 8-port) for all fieldbus networks reduce the mounting effort.

Type	BL20-2RFID-S
Ident-No.	6827306
Number of channels	2
Rated voltage from the supply terminal	24 VDC
Supply voltage	24 VDC
Rated current from field supply	≤ 100 mA
Rated current from module bus	≤ 30 mA
Power loss, typical	≤ 1 W
Transmission rate	115.2 kbps
Cable length	50m
Electrical isolation	isolation of electronics and field level via optocouplers
Connection technology	Screw, tension spring
Simultaneity factor	1
Sensor supply	0.25 A per channel, short-circuit proof
Number of diagnostics bytes	4
Number of parameter bytes	8
Dimensions (W x L x H)	12.6x74.1x55.4mm
Approvals	CE, cULus, zone2, ClassI,div.2.
Operating temperature	0 ... +55 °C
Storage temperature	-25 ... +85 °C
Relative humidity	5 to 95% (internal), Level RH-2, no condensation (at 45 °C storage)
Vibration test	acc. to EN 61131
Shock test	acc. to IEC 68-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electro-magnetic compatibility	acc. to EN 50,082-2
Protection class	IP20

Compatible base modules

Dimension drawing	Type	Pin configuration
	<p>BL20-S4T-SBBS 6827046 tension spring connection</p> <p>BL20-S4S-SBBS 6827047 screw connection</p>	<p>Connectors .../S2500</p>  <p>Connectors .../S2501</p>  <p>Connectors .../S2503</p> 

LED display

LED	Color	Status	Meaning
D		OFF	Error report or diagnostics active.
	RED	ON	Failure of MODBUS communication Check if more than 2 adjacent 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, diagnostics disabled
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head fault
	RED	FLASHING (2 Hz)	Short-circuit in the supply line of read/write head

Compatible gateways:

Ident	Type	Communication	Version and higher	Application
6827234	BL20-GW-DPV1	PROFIBUS-DP	FW 1.11	PLC systems with PROFIBUS-DP master. Acyclic services or function modules are not required.
6827168	BL20-GWBR-DNET	DeviceNet™	FW 6.02	PLC systems with DeviceNet™ scanner (master).
6827167	BL20-GWBR-CANOPEN	CANopen	FW 3.02	PLC systems with CANopen master. Special services or function modules are not required.
6827237	BL20-GW-EN	Modbus TCP	FW 1.5.0.2	PLC systems with Modbus TCP Master or PC based solution using a Modbus driver software
6827247	BL20-GW-EN-IP	EtherNet/IP™	FW 1.9.0.11	PLC systems with EtherNet/IP™ scanner (master).

Compatible economy gateways:

Ident	Type	Communication	Version and higher	Application
6827250	BL20-E-GW-DP	PROFIBUS-DP	FW 1.12	PLC systems with PROFIBUS-DP master. DPV1 is not required.
6827301	BL20-E-GW-DN	DeviceNet™	FW 1.16	PLC systems with DeviceNet™ scanner (master).
6827252	BL20-E-GW-CO	CANopen	FW 2.00	PLC systems with CANopen master. Special services or function modules are not required.
6827329	BL20-E-GW-EN	Modbus TCP	FW 1.0.0.1	PLC systems with Modbus TCP Master or PC based solution using a Modbus driver software
6827330	BL20-E-GW-EN-IP	EtherNet/IP™	FW 1.9.0.15	PLC systems with EtherNet/IP™ scanner (master).

Compatible CoDeSys programmable gateways

Ident	Type	Communication	Version and higher	Application
6827249	BL20-PG-EN	Modbus TCP	FW 1.5.0.2	PLC systems with Modbus TCP Master or PC based solution using a Modbus driver software
6827248	BL20-PG-EN-IP	EtherNet/IP™	FW 1.9.0.11	PLC systems with EtherNet/IP™ scanner (master).

I/O Data Mapping

Channel 0	n	DONE	BUSY	ERROR	XCVR CON	XCVR ON	TP	TFR	Reserved	
	n+1	Error Code								
	n+2	Error Code 1								
	n+3	Reserved								
	n+4	READ DATA (8 Byte)								
	n+5									
	...									
	n+10									
n+11										
Channel 1	n+12	DONE	BUSY	ERROR	XCVR CON	XCVR ON	TP	TFR	Reserved	
	n+13	Error Code								
	n+14	Error Code 1								
	n+15	Reserved								
	n+16	READ DATA (8 Byte)								
	n+17									
	...									
	n+22									
n+23										
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
Channel 0	m	XCVR	NEXT	TAG ID	READ	WRITE	TAG INFO	XCVR INFO	RESET	
	m+1	Reserved						Byte Count 2	Byte Count 1	Byte Count 0
	m+2	Address high byte								
	m+3	Address low byte								
	m+4	WRITE DATA (8 Byte)								
	m+5									
	...									
m+10										
m+11										
Channel 1	m+12	XCVR	NEXT	TAG ID	READ	WRITE	TAG INFO	XCVR INFO	RESET	
	m+13	Reserved						Byte Count 2	Byte Count 1	Byte Count 0
	m+14	Address high byte								
	m+15	Address low byte								
	m+16	WRITE DATA (8 Byte)								
	m+17									
	...									
m+22										
m+23										