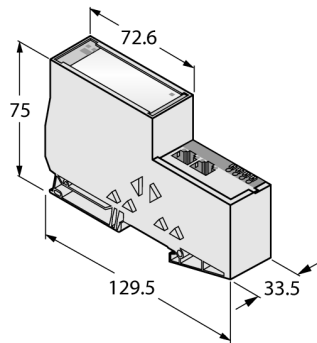


Gateway for the BL20 I/O System

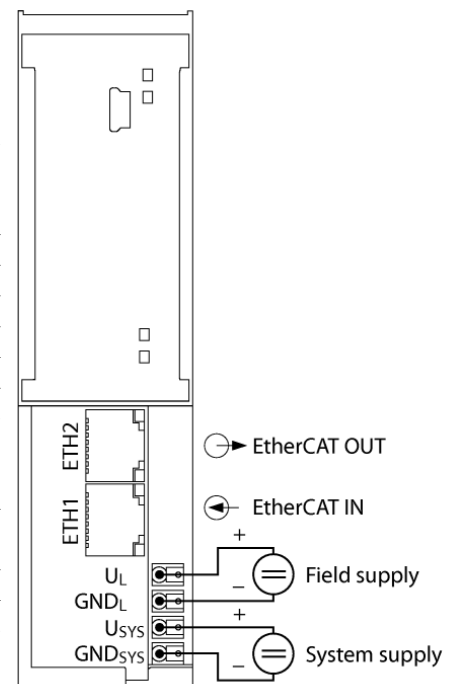
Interface for EtherCAT — Second Generation

BL20-E-GW-EC-20



- Protection class IP20
- 2 x end brackets BL20-WEW35/2-SW
- 1 x end plate BL20-ABPL
- LEDs for display of supply voltage, group and bus errors
- Gateway between the BL20 system and EtherCAT
- Modular Device Profile (MDP) supported
- 10/100 Mbps, Auto MDIX
- 2 × RJ45 female connectors

Field/System Supply



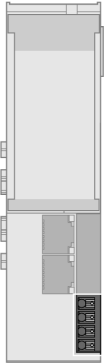
Functional principle

BL20 gateways are the head component of a BL20 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet, CANopen, Ethernet).

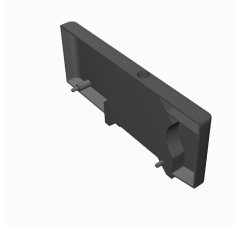
All BL20 electronic modules communicate over the internal module bus, the data of which is transferred to the fieldbus via the gateway, so that all I/O modules can be configured independently of the bus system.

Type	BL20-E-GW-EC-20
ID	100037881
Supply voltage	24 VDC
System power supply	24 VDC / 5 VDC
Field supply	24 VDC
Admissible range	18...30 VDC
Nominal current from module bus	≤ 200 mA
Max. field supply current	8 A
Max. system supply current	0.7 A
Voltage supply connection	Push-in terminals
System data	
Max. number of I/O modules	32
Transmission rate	10/100 Mbps; full/half duplex; auto negotiation; auto crossing
Connection technology Ethernet	2 × RJ45 female connector
Service interface	Micro USB
EtherCAT	
Address allocation	automatic
MinCycleTime	125 µs
Diagnostics	CoE Emergencies, DiagnosisHistory
CAN over EtherCAT	acc. to modular device profile (ETG.5001.1)
Dimensions (W x L x H)	33.5 x 129.5 x 74.4 mm
Approvals	CE, cULus
Ambient temperature	0...+55 °C
Storage temperature	-25...+85 °C
Relative humidity	15...95 %, no condensation allowed
Vibration test	Acc. to EN 61131
Shock test	Acc. to IEC 60068-2-27
Drop and topple	Acc. to IEC 60068-2-31
Electromagnetic compatibility	Acc. to EN 61131-2
Protection class	IP20
Included in delivery	2 x end brackets BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL

Connection overview

	EtherCAT Fieldbus cable (example): RJ45S-RJ45S-441-2M (ID 6932517) or RJ45-FKSDD-441-0.5M/S2174 (ID 6914221)	Pin assignment XF2 EC OUT 8 1 XF1 EC IN 8 1 1 = TX + 2 = TX - 3 = RX + 4 = n.c. 5 = n.c. 6 = RX - 7 = n.c. 8 = n.c.
	Power Supply The U_{SYS} system supply feeds power to the gateway and the I/O modules. The U_L field supply feeds power to the sensors and actuators.	Pin assignment U_L GND_L + - + - Field supply U_{SYS} GND_{SYS} + - + - System supply

Accessories

Type code	Ident no.		Dimension drawing
BL20-ABPL (2 PCS.)	6827123	End plate for a BL20 station after the last I/O module (2 pieces)	
BL20-WEW-35/2-SW (10 PCS.)	6827124	End bracket for fixation of a BL20 station (10 pieces)	