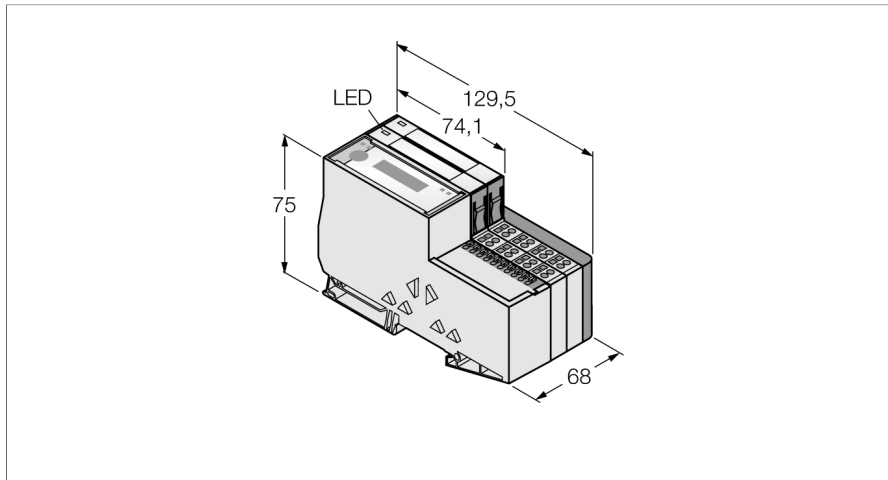# Economy Set for Profibus DPV1 in IP20
TI-BL20-E-DPV1-4

- **Cable max. 50 m between interface and read/write head**
- **Connection of up to 4 read/write heads via BL ident extension cables**
- **Mixed operation of HF and UHF read/write heads**

Functional principle

Pin configuration i.e.signal assignment results from the combination with an electronic module. You find the pin configuration and the wiring diagrams on the data sheet of the corresponding electronic module.

The base modules are connected to the field devices via screw connections or tension spring connections.

Note

Further technical data, like for example the temperature range, are determined by the electronic modules and can be found on the data sheets.
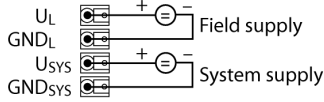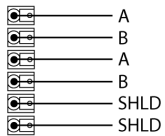
BL20 gateways are the head component of a BL20 station. They are designed to interface the modular fieldbus nodes to the higher level fieldbus (PROFIBUS-DP, DeviceNet, CANopen, Ethernet).

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 designation	TI-BL20-E-DPV1-4
Ident no.	1545123
Number of channels	4
Dimensions (W x L x H)	68 x 129.5 x 75 mm

Supply voltage	24 VDC
System power supply	24 VDC / 5 VDC
Field supply	24 VDC
Admissible range	18…30 VDC
Max. field supply current	8
Max. system supply current	1

Fieldbus transmission rate	9.6 kbps …12 Mbps
Fieldbus address range	1...126
Fieldbus addressing	via DIP switch
Service interface	PS/2 socket
Fieldbus connection technology	Push-in clamps
Voltage supply connection	Push-in terminals
Fieldbus termination	via DIP switch

Number of diagnostics bytes	3
Number of parameter bytes	5

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 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	Acc. to EN 50082-2
Protection class	IP20

Included in delivery	2 x end brackets BL20-WEW-35/2-SW, 1 x end plate BL20-ABPL
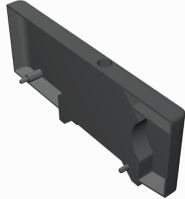
Anschlussübersicht

	Power Supply	Pin Assignment
	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.	U_L ⊟ + − Field supply GND_L ⊟ U_{SYS} ⊟ + − System supply GND_{SYS} ⊟
	PROFIBUS-DP Fieldbus cable (example): D9T451-2M (ident no. 6915759) or RSSW-451-2M (ident no. 6914229)	⊟ A ⊟ B ⊟ A ⊟ B ⊟ SHLD ⊟ SHLD

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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)	