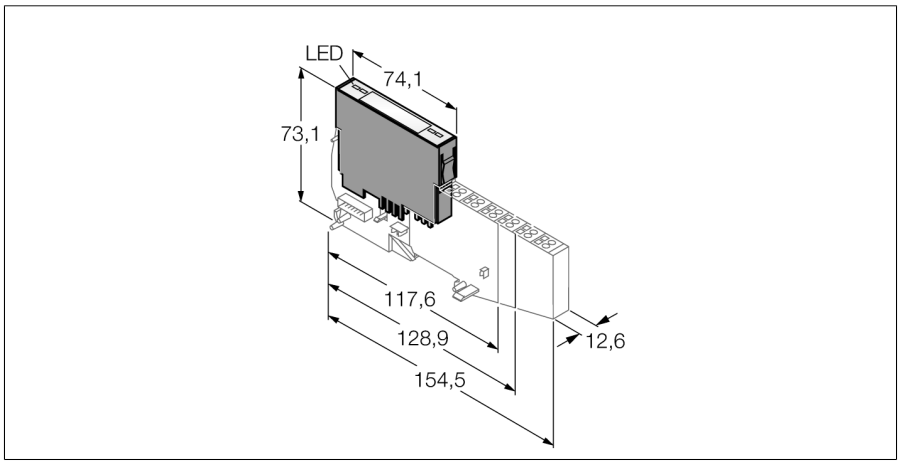
BL20 electronic module
bus refreshing module with diagnostics
BL20-BR-24VDC-D

Industrial Automation



- **Fieldbus and connection technology independent**
- **Protection class IP20**
- **LEDs indicating system status, field supply and diagnostic information**
- **Can be used to form potential groups**
- **BL20 I/O modules and gateway supplied via the internal module bus with 5 VDC nominal voltage**
- **Supplies field with 24 VDC nominal voltage**

Type	BL20-BR-24VDC-D
Ident-No.	6827006
Ident-No (TUSA)	M6827006
Supply voltage	24 VDC
System power supply	24 VDC / 5 VDC
Field supply	24 VDC
Admissible range	18…30 VDC
Max. field supply current	10 A
Max. system supply current	1.5 A
Connection technology	Screw, tension spring
Number of diagnostic bits	4
Dimensions (W x L x H)	12.6x74.1x55.4mm
Approvals	CE, cULus, zone2, ClassI,div.2.
Operating temperature	0 to +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

Functional principle

BL20 electronic modules are plugged into the purely passive base modules which are used for connection of field devices. Maintenance is significantly facilitated due to separation of the connection level from the module electronics. Furthermore flexibility is enhanced because the base modules provide a choice of tension spring or screw connection technology.

The electronic modules are completely independent of the type of higher level field bus through the use of gateways.

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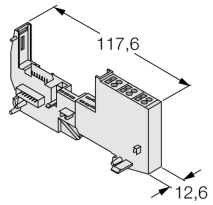
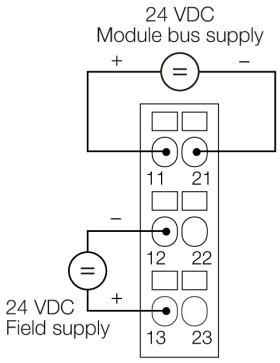
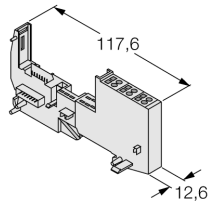
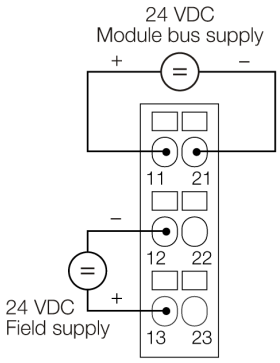
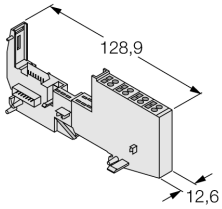
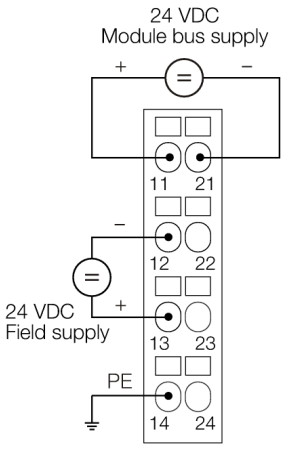
Compatible base modules

Dimension drawing	Type	Pin configuration
	**BL20-P3T-SBB** 6827036 tension spring connection, with gateway supply **Comments** Is placed on the right side of the gateway (for gateways without integrated power supply) **BL20-P3S-SBB** 6827037 screw connection, with gateway supply **Comments** Is placed on the right side of the gateway (for gateways without integrated power supply)	Wiring diagram 
	**BL20-P3T-SBB-B** 6827040 tension spring connection, without gateway supply **Comments** Is applied to bigger BL20 systems in order to supply the module bus if required **BL20-P3S-SBB-B** 6827041 screw connection, without gateway supply **Comments** Is applied to bigger BL20 systems in order to supply the module bus if required	Wiring diagram 
	**BL20-P4T-SBBC** 6827038 tension spring connection, C rail, with gateway supply **Comments** Is placed on the right side of the gateway (for gateways without integrated power supply) **BL20-P4S-SBBC** 6827039 screw connection, C rail, with gateway supply **Comments** Is placed on the right side of the gateway (for gateways without integrated power supply)	Wiring diagram 

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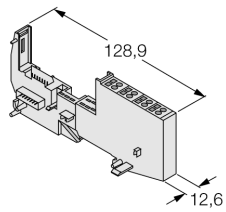
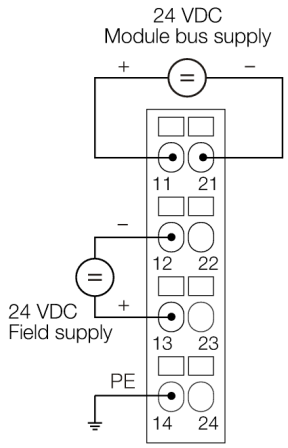
Compatible base modules

Dimension drawing	Type	Pin configuration
	**BL20-P4T-SBBC-B** 6827042 tension spring connection, C rail, without gateway supply **Comments** Is applied to bigger BL20 systems in order to supply the module bus if required **BL20-P4S-SBBC-B** 6827043 screw connection, C rail, without gateway supply **Comments** Is applied to bigger BL20 systems in order to supply the module bus if required	Wiring diagram 

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