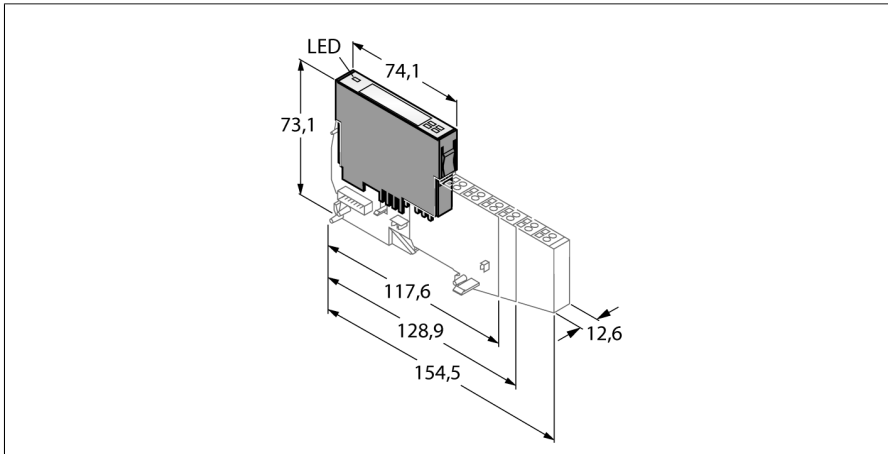# BL20 electronic module
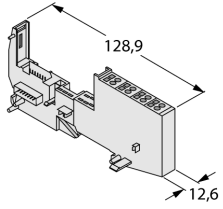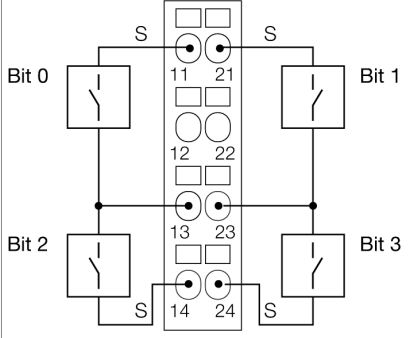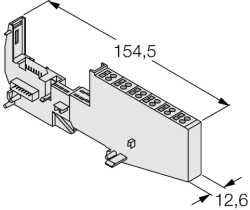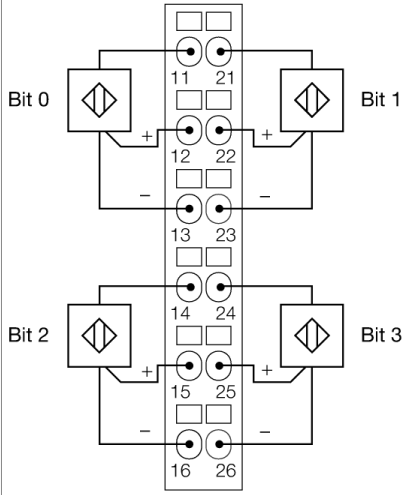# 4 Digital Inputs, NPN
BL20-4DI-24VDC-N

- Fieldbus and connection technology independent
- Protection class IP20
- LEDs indicate status and diagnostic
- Electronics galvanically separated from the field level via optocouplers
- 4 digital inputs, 24 VDC
- N switching

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.

Type	BL20-4DI-24VDC-N
ID	6827013

Number of channels	4
Rated voltage from the supply terminal	24 VDC
Nominal current from field supply	≤ 40 mA
Nominal current from module bus	≤ 28 mA
Power dissipation, typical	≤ 1 W

Inputs	
Input type	NPN
Low-level signal voltage	> 13 V
High level signal voltage	0…5 V
Low level signal current	0…1.2 mA
High level signal current	1.3…6 mA
Input delay	< 0.2 ms
Electrical isolation	electronics for the field level
Output connectivity	Screw, tension spring

Dimensions (W x L x H)	12.6 x 74.1 x 55.4 mm
Approvals	CE, cULus, zone 2, Class I, Div. 2
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 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	Acc. to EN 50082-2
Protection class	IP20
MTTF	1337 years acc. to SN 29500 (Ed. 99) 20 °C

Compatible base modules

Dimension drawing	Type	Pin configuration
128,9 12,6	**BL20-S4T-SBBS** 6827046 Tension spring connection **BL20-S4S-SBBS** 6827047 Screw connection	Wiring Diagram
154,5 12,6	**BL20-S6T-SBBSBB** 6827052 Tension spring connection **BL20-S6S-SBBSBB** 6827053 Screw connection	Wiring Diagram

Accessories

Type code	Ident no.		Dimension drawing
ZBW5-2BETÄTIGUNGSWERKZEUG	6827120	Tension spring tool	