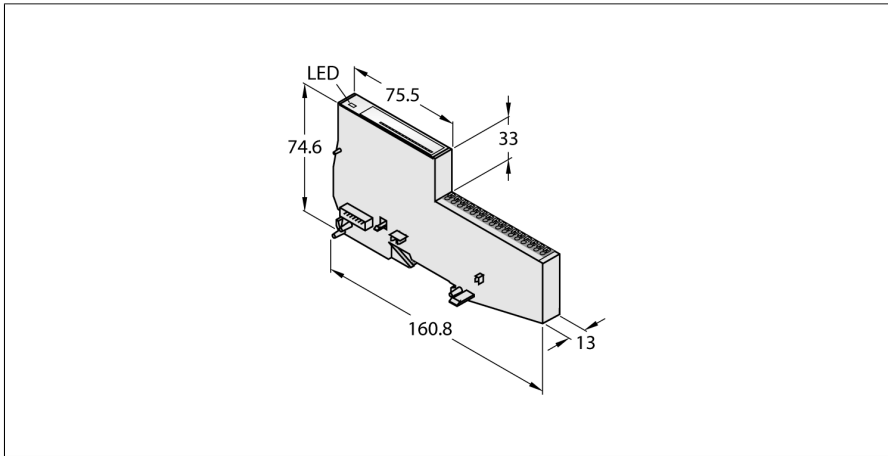


# BL20 Economy Module

## 16 Digital Inputs, NPN

### BL20-E-16DI-24VDC-N



- Fieldbus-independent
- Electronics and connection technology in one housing
- Connectivity: Push-in terminals
- Protection class IP20
- 16 digital inputs, 24 VDC
- N switching

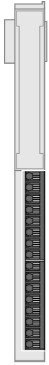
#### Functional principle

Electronics and connection technology are integrated in the housing. A base module is not needed. Economy modules and modules with separate electronics and connection technology can be fitted into a station, provided the base modules feature tension spring connections.

The use of gateways makes economy modules completely independent from the higher level fieldbus.

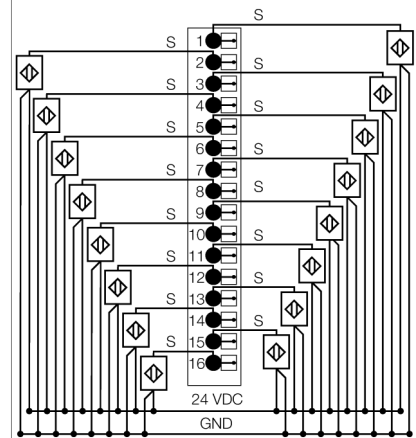
Type	BL20-E-16DI-24VDC-N
ID	100000542
Number of channels	16
Rated voltage from the supply terminal	24 VDC
Admissible range	18...30 VDC
Nominal current from field supply	≤ 40 mA
Nominal current from module bus	≤ 35 mA
Power dissipation, typical	≤ 1.5 W
Input type	NPN
Low-level signal voltage	> (UL - 5 V)
High level signal voltage	< (UL - 11 V)
Low level signal current	-1...+1.5 mA
High level signal current	2...5 mA
Input delay	< 0.2 ms
Electrical isolation	electronics for the field level
Output connectivity	Push-in
Dimensions (W x L x H)	13 x 160.8 x 74.6 mm
Approvals	CE
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	673 years acc. to SN 29500 (Ed. 99) 20 °C

## Connection Overview

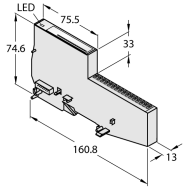
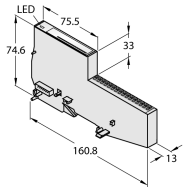
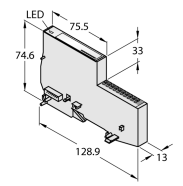
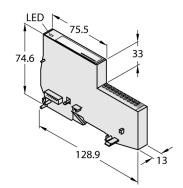


### Digital Inputs

### Pin Assignment



## Accessories

Type code	Ident no.		Dimension drawing
BL20-E-16UL	100001337	BL20 ECO module with 16 connection terminals for wiring 24 VDC potential from the UL field supply	 <p>Technical drawing showing the dimensions of the BL20-E-16UL module. The drawing is a perspective view of a rectangular module with a terminal block on the right side. Dimensions are: LED (74.6), 75.5, 33, 160.8, and 13.</p>
BL20-E-16GNDL	100001338	BL20 ECO module with 16 connection terminals for wiring GND potential from the UL field supply	 <p>Technical drawing showing the dimensions of the BL20-E-16GNDL module. The drawing is a perspective view of a rectangular module with a terminal block on the right side. Dimensions are: LED (74.6), 75.5, 33, 160.8, and 13.</p>
BL20-E-10UL	100001335	BL20 ECO module with 10 connection terminals for wiring 24 VDC potential from the UL field supply	 <p>Technical drawing showing the dimensions of the BL20-E-10UL module. The drawing is a perspective view of a rectangular module with a terminal block on the right side. Dimensions are: LED (74.6), 75.5, 33, 128.9, and 13.</p>
BL20-E-10GNDL	100001336	BL20 ECO module with 10 connection terminals for wiring GND potential from the UL field supply	 <p>Technical drawing showing the dimensions of the BL20-E-10GNDL module. The drawing is a perspective view of a rectangular module with a terminal block on the right side. Dimensions are: LED (74.6), 75.5, 33, 128.9, and 13.</p>