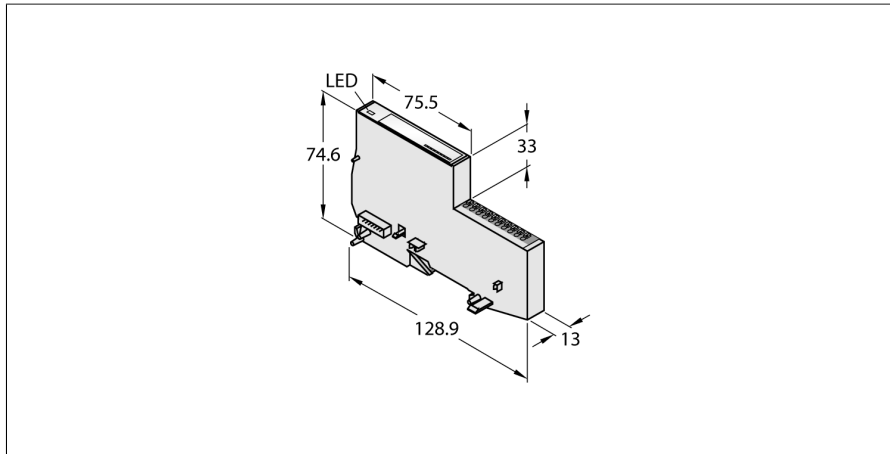# BL20 Economy Module
8 Digital Outputs, PNP, 0.5 A
With Extended Temperature Range
BL20-E-8DO-24VDC-0.5A-P/ET

- Fieldbus-independent
- Electronics and connection technology in one housing
- Connectivity: Push-in terminals
- Protection class IP20
- 8 digital outputs, 24 VDC
- Max. 0.5 A
- P switching
- Extended temperature range: -25 °C…+60 °C
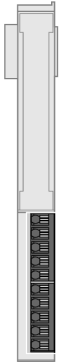- Circuit boards with conformal coating

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.
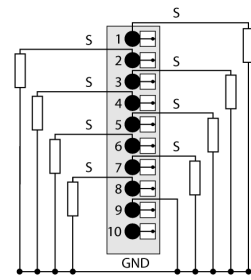
Type	BL20-E-8DO-24VDC-0.5A-P/ET
ID	100000400

Number of channels	8
Rated voltage from the supply terminal	24 VDC
Admissible range	18…30 VDC
Nominal current from field supply	≤ 3 mA
Nominal current from module bus	≤ 15 mA
Power dissipation, typical	≤ 1.5 W

Output connectivity	Push-in

Output type	PNP
Output voltage	24 VDC
Output current per channel	0.5 A
Output delay	0.3 ms
Load type	Resistive, inductive, lamp load
Load resistance, resistive	> 48 Ω
Lamp load	< 6 W
Switching frequency, resistive	< 100 Hz
Switching frequency, lamp load	< 10 Hz
Short-circuit protection	yes
Simultaneity factor	1
Electrical isolation	electronics for the field level

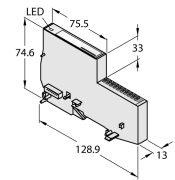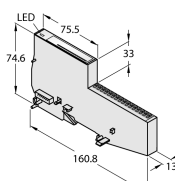|	
Dimensions (W x L x H)	13 x 128.9 x 74.6 mm
Approvals	CE
Ambient temperature	-25…+60 °C
Storage temperature	-25…+85 °C
Relative humidity	15…95 %, no condensation allowed
Vibration test	Acc. to EN 61131
Shock test	Acc. to IEC 60068-2-27
Drop and topple	acc. to IEC 68-2-31 and free fall to IEC 68-2-32
Electromagnetic compatibility	Acc. to EN 50082-2
Protection class	IP20
MTTF	1008 years acc. to SN 29500 (Ed. 99) 20 °C

Connection Overview

	Digital Outputs	Pin Assignment

Accessories

Type code	Ident no.		Dimension drawing
BL20-E-10GNDL	100001336	BL20 ECO module with 10 connection terminals for wiring GND potential from the UL field supply	LED 75.5 74.6 33 128.9 13
BL20-E-16GNDL	100001338	BL20 ECO module with 16 connection terminals for wiring GND potential from the UL field supply	LED 75.5 74.6 33 160.8 13