

Discrete Input Blocks

- Modular I/O
- IP 20 Protection
- Fieldbus Independent Configuration
- Various I/O Styles



BL20-32DI-24VDC-P

BL20-16DI-24VDC-P



Electrical

- Operating Current: <math><45\text{ mA}</math> from V_{MB}
<math><40\text{ mA}</math> from V_{IO} (...-16DI...)
<math><30\text{ mA}</math> from V_{IO} (...-32DI...)

Power Distribution

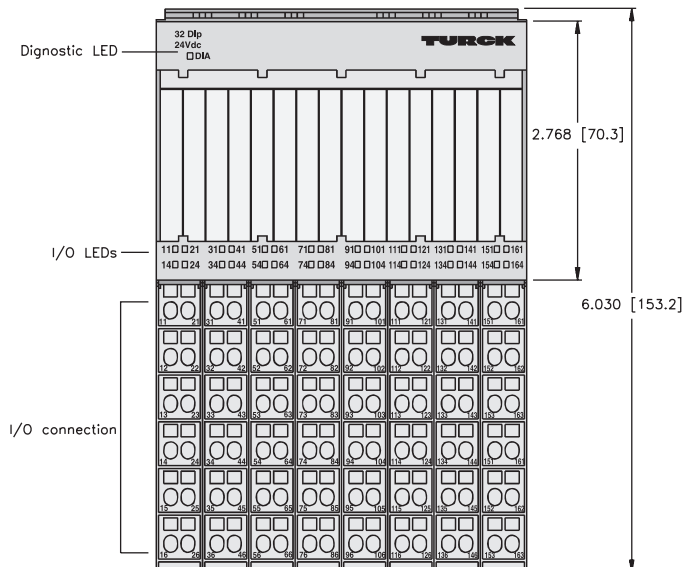
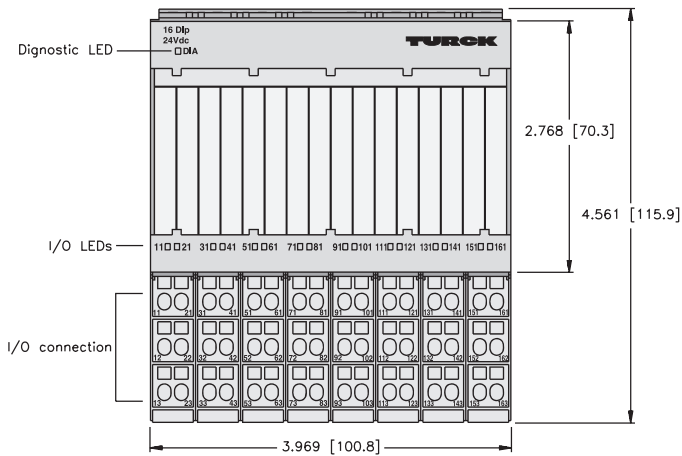
- Inputs: V_{IO}
- Logic: V_{MB} and V_{IO}

Mechanical

- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IP 20

Diagnostics (Physical)

- LED to indicate module bus communication status as well as I/O diagnostics
- LEDs for each I/O point to indicate on/off status

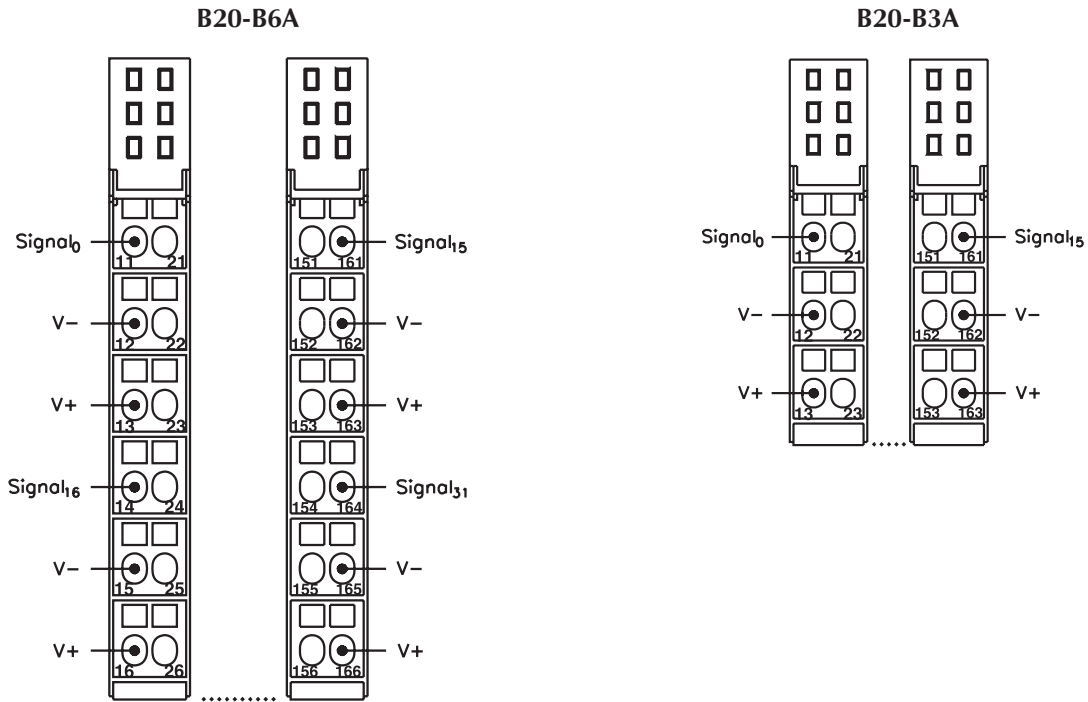


Inputs	Data
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Part Number	Input Count	Pinout	Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	I/O Map
BL20-16DI-24VDC-P with BL20-B3*-SBB**	16	B20-B3A	PNP				1
BL20-32DI-24VDC-P with BL20-B6*-SBB**	32	B20-B6A	PNP				2

* T = Tension clamp
 S = Screw clamp
 ** Base modules sold separately. See pages C56 - C60.

Input Connectors



I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	n-1	(Data from modules to the left)							
n	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0	
n+1	I-15	I-14	I-13	I-12	I-11	I-10	I-9	I-8	
n+2	(Data from modules to the right)								

I/O Data Map 2

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	n-1	(Data from modules to the left)							
n	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0	
n+1	I-15	I-14	I-13	I-12	I-11	I-10	I-9	I-8	
n+2	I-23	I-22	I-21	I-20	I-19	I-18	I-17	I-16	
n+3	I-31	I-30	I-29	I-28	I-27	I-26	I-25	I-24	
n+4	(Data from modules to the right)								