

**Discrete Output Economy Module**

- Modular I/O
- IP 20 Protection
- Fieldbus Independent Configuration
- Base and Electronics in One Part



**BL20-E-8DO-24VDC-0.5A-P**  
**BL20-E-16DO-24VDC-0.5A-P**



**Electrical**

- Operating Current: <math>< 30 \text{ mA}</math> from  $V_{MB}$   
<math>< 10 \text{ mA}</math> from  $V_{IO}$
- Output Current: <math>< 0.5 \text{ A}</math> per output (from  $V_{IO}$ )

**Power Distribution**

- Outputs:  $V_{IO}$
- Logic:  $V_{MB}$  and  $V_{IO}$

**Mechanical**

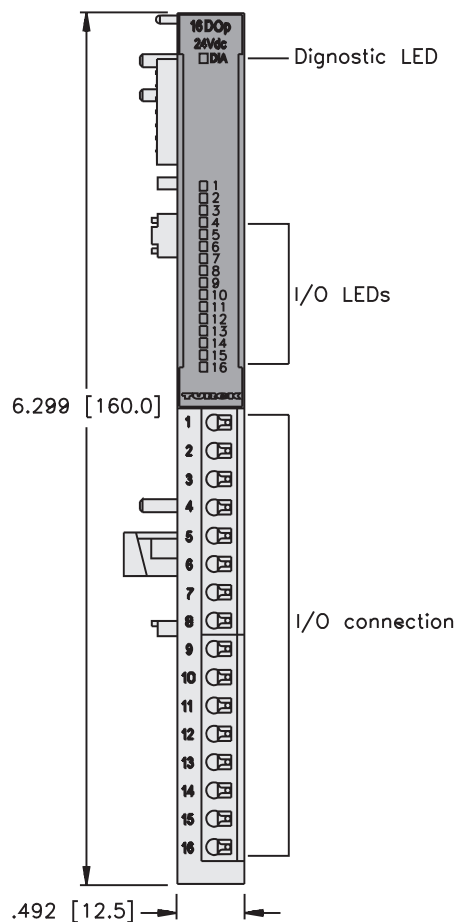
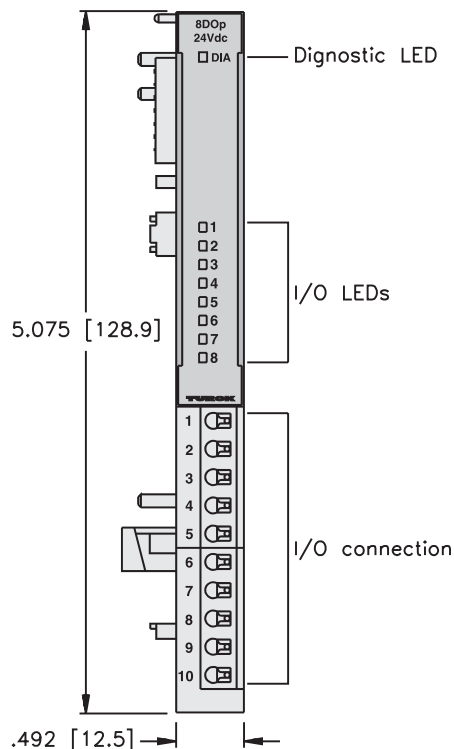
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IP 20

**Diagnostics (Logical)**

- Diagnostic information available through the fieldbus gateway

**Diagnostics (Physical)**

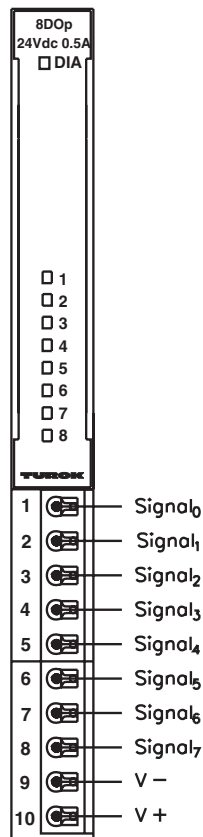
- LED to indicate module bus communication status as well as I/O diagnostics
- LEDs for each I/O point to indicate on/off status



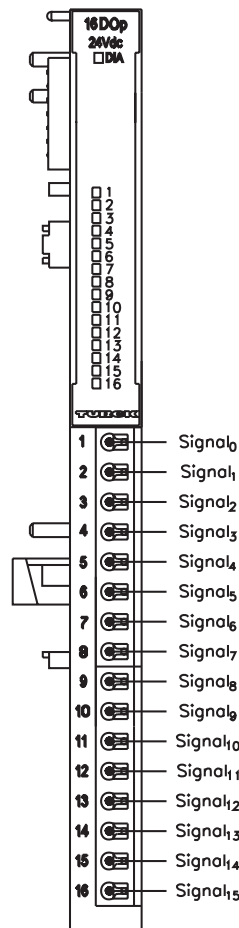
Part Number	Outputs					Data
	Input Count	Pinout	Current	Individual Diagnostics	Wire-Break Detection	I/O Map
BL20-E-8DO-24VDC-0.5A-P	8	BO-E1	0.5 A	X		1
BL20-E-16DO-24VDC-0.5A-P	16	BO-E2	0.5 A	X		2

Output Connectors

BO-E1



BO-E2



I/O Data Map 1

Out	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
n-1	(Data for modules to the left)								
n	0-7	0-6	0-5	0-4	0-3	0-2	0-1	0-0	
n+1	(Data for modules to the right)								

I/O Data Map 2

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