

### Controller Input and Output Description

Catalog Number	Description				
	Input Power	User Power	Embedded Discrete I/O	Embedded Analog I/O	Comm. Ports
1766-L32BWA	100/240V AC	24V DC	12 Fast 24V DC Inputs 8 Normal 24V DC Inputs 12 Relay Outputs	None	1 RS232/RS485 <sup>(1)</sup> 1 Ethernet/IP 1 RS232 <sup>(2)</sup>
1766-L32AWA		None	20 120V AC Inputs 12 Relay Outputs		
1766-L32BXB	24 V DC		12 Fast 24V DC Inputs 8 Normal 24V DC Inputs 6 Relay Outputs 3 Fast DC Outputs 3 Normal DC Outputs		
1766-L32BWAA	100/240V AC	24V DC	12 Fast 24V DC Inputs 8 Normal 24V DC Inputs 12 Relay Outputs	4 Voltage Inputs 2 Voltage Outputs	
1766-L32AWAA		None	20 120V AC Inputs 12 Relay Outputs		
1766-L32BXBA	24V DC		12 Fast 24V DC Inputs 8 Normal 24V DC Inputs 6 Relay Outputs 3 Fast DC Outputs 3 Normal DC Outputs		

<sup>(1)</sup> Isolated RS-232/RS-485 combo port. Same as ML1100 Comm 0

<sup>(2)</sup> Non-isolated RS-232. Standard D-sub connector



# Specifications

## General Specifications

Description	1766-L32AWA 1766-L32AWAA	1766-L32BWA 1766-L32BWAA	1766-L32BXB 1766-L32BXXBA
Dimensions HxWxD	90 x 180 x 87 mm 3.5 x 7.087 x 3.43 in.		
Shipping weight	0.9 kg (2.0 lbs)		
Number of I/O	24 inputs (20 digital and 4 analog) and 14 outputs (12 digital and 2 analog)		
Power supply voltage	100...240V AC @ 47...63 Hz		24V DC Class 2 SELV
Heat dissipation	Refer to the MicroLogix 1400 Programmable Controllers User Manual, Publication <a href="#">1766-UM001</a> .		
Power supply inrush current	120V AC: 25 A for 8 ms 240V AC: 40A for 4 ms		24V DC: 15 A for 20 ms
Power consumption	100 VA	120 VA	50W 7.5W (with no 1762 expansion I/O)
24V DC sensor power	none	24V DC @ 250 mA 400 µF max.	none
Input circuit type	Digital: 120V AC  Analog: 0...10V DC	Digital: 24V DC sink/source (standard and high-speed) Analog: 0...10V DC	Digital: 24V DC sink/source (standard and high-speed) Analog: 0...10V DC
Output circuit type	Relay		Relay/FET
Relay life - Electrical	2 x 10 <sup>5</sup> operations min (2.5 A, 250V AC / 30V DC)		
Enclosure type rating	None (open-style)		
Wire size	0.25... 2.5 mm <sup>2</sup> (22...14 AWG) solid or stranded copper wire rated @ 90 °C (194 °F) or greater.		
Wiring category <sup>(1)</sup>	2 - on signal ports 2 - on power ports 3 - on communications ports		
Terminal screw torque	0.79 Nm (7.0 in-lb) rated		

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<b>Description</b>	<b>1766-L32AWA 1766-L32AWAA</b>	<b>1766-L32BWA 1766-L32BWAA</b>	<b>1766-L32BXB 1766-L32BXBA</b>
Pilot duty rating	R300, C300		
Expansion bus	Supports up to seven 1762 modules, up to a maximum of 5V, 1500 mA (1300 mA for Series C only) and 24 V, 1500 mA (1300 mA for Series C only).		
North American temp code	T3C		

<sup>(1)</sup> Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).