OMRON

Input Screw Terminal Block

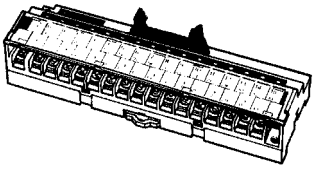
XW2C

Consolidate Inputs for Omron High-density I/O Modules

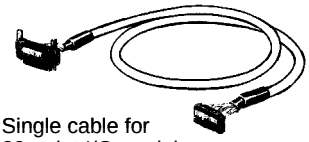
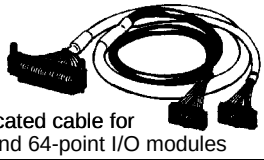
- Power supply common terminals for input devices
- Operation indicators make it possible to monitor the ON and OFF conditions of input signals with ease
- DIN track and screw mounting are available
- Dedicated cables to Omron PLC I/O modules available, order separately

Ordering Information

■ INPUT SCREW TERMINAL BLOCK

Appearance	Number of input points	Input mode	Part number
	16	NPN input (negative common)	**XW2C-20G5-IN16**

■ CONNECTING CABLES

Appearance	Applicable terminal block	Cable length	Part number
 Single cable for 32-point I/O modules	XW2C-20G5-IN16	0.5 m (1.64 ft)	**XW2Z-050A**
		1 m (3.28 ft)	**XW2Z-100A**
		1.5 m (4.92 ft)	**XW2Z-150A**
		2 m (6.56 ft)	**XW2Z-200A**
		3 m (9.84 ft)	**XW2Z-300A**
		5 m (16.40 ft)	**XW2Z-500A**
 Bifurcated cable for 32- and 64-point I/O modules	XW2C-20G5-IN16	1 m (3.28 ft) and 0.75 m (2.46 ft)	**XW2Z-100D**
		1.5 m (4.92 ft) and 1.25 m (4.10 ft)	**XW2Z-150D**
		2 m (6.56 ft) and 1.75 m (5.74 ft)	**XW2Z-200D**
		3 m (9.84 ft) and 2.75 m (9.02 ft)	**XW2Z-300D**
		5 m (16.40 ft) and 4.75 m (15.58 ft)	**XW2Z-500D**

Specifications

■ INPUT SCREW TERMINAL BLOCK

Rated current	1 A/common
Rated voltage	12 to 24 VDC
Number of inputs	16
Input indicator	Orange LED
Power supply voltage range	12 to 24 VDC±5%
LED current	10 mA/point at 24 VDC
Insulation resistance	50 MΩ min. at 500 VDC
Dielectric strength	500 VAC for 1 minute
Enclosure rating	IP10 (IEC529)
Electrical protection	Class 0
Ambient temperature	Operating: 0°C to 55°C (32°F to 131°F)

■ CONNECTORS

Ratings/Characteristics

Item	Rating
Rated current	1 A at 20°C (68°F)
Rated voltage	125 VAC
Contact resistance	20 mΩ max. with 100 mA at 20 mV max. (See Note 1)
Insulation resistance	100 MΩ min. at 500 VDC
Dielectric strength	500 VAC for 1 minute with a current leakage of 1 mA max. (See Note 2)
Enclosure rating	IP00
Electrical protection	Class 0
Ambient temperature	Operating: −25°C to 80°C (−13°F to 176°F)

Note: 1. The resistance indicated is the contact resistance of the connector.
2. The voltage indicated is the dielectric strength of the connector.

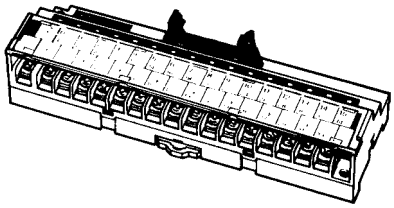
Materials/Finish

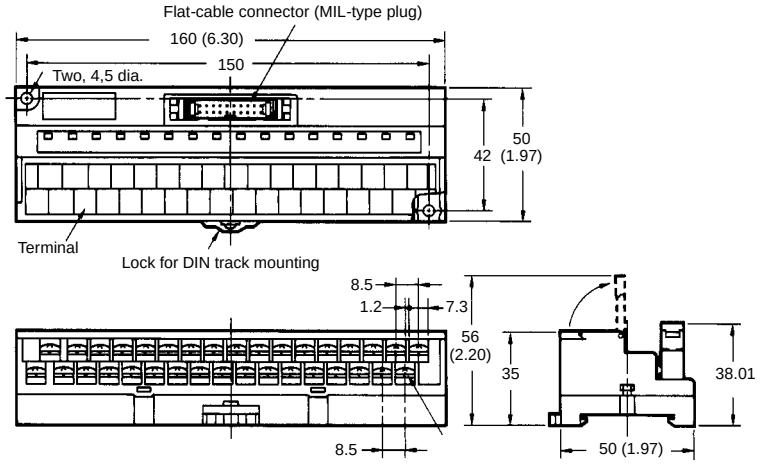
Item	Parts		Materials/Processing	
Connector	XG4M-2030 XG4M-4030 XG4M-6030	Housing	Black PBT resin with glass (UL94V-0)	
		Cover		
		Contact	Contact−carrying portion: Press−fit portion:	Phosphor bronze and nickel plated with 0.15-μm-thick gold Phosphor bronze and nickel plated with 2.0-μm-thick tin
	XG4T-2004 XG4T-4004 XG4T-6004	Strain relief	Black PBT resin with glass (UL94V-0)	
	FCN-367J024-AU/F FCN-367J040-AU/F	Housing	Black PBT resin (UL94V-0)	
		Contact	Contact-carrying portion: Press-fit portion:	Gold-plated phosphor bronze Tin-plated phosphor bronze
		Screw	Nickel-plated steel	
Cable	UL2464 interface cable		Equivalent to AWG28	
Crimp terminal	Fork-type crimp terminal		Equivalent to 1.25YAS3.5	

Dimensions

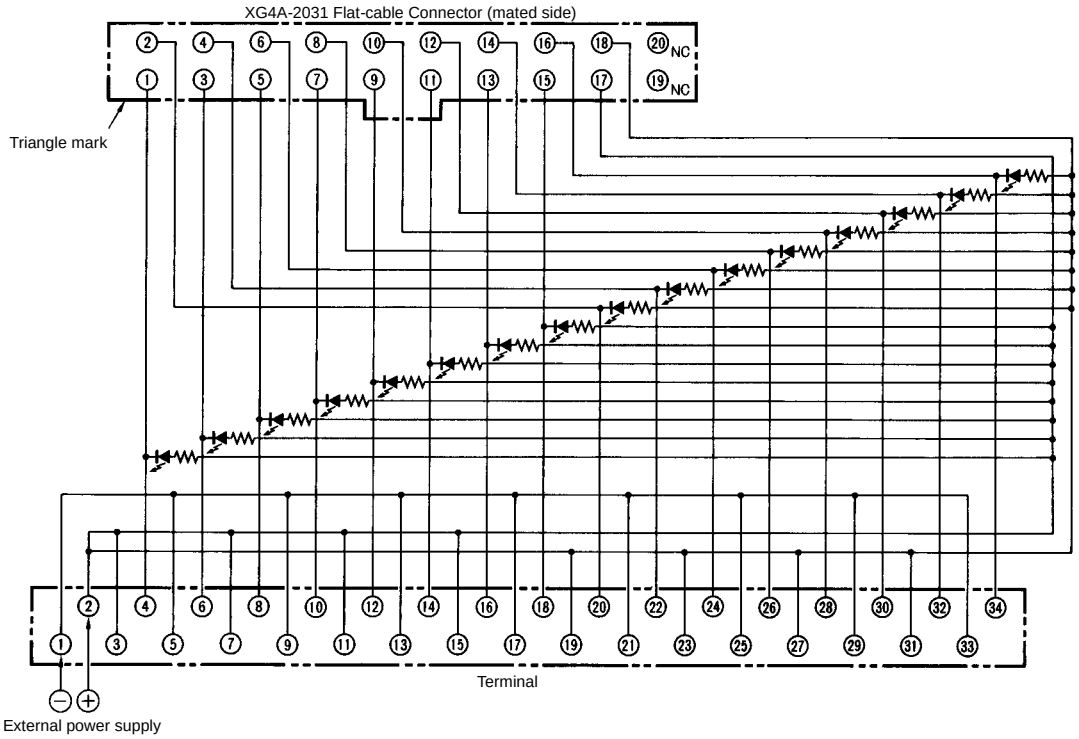
Unit: mm (inch)

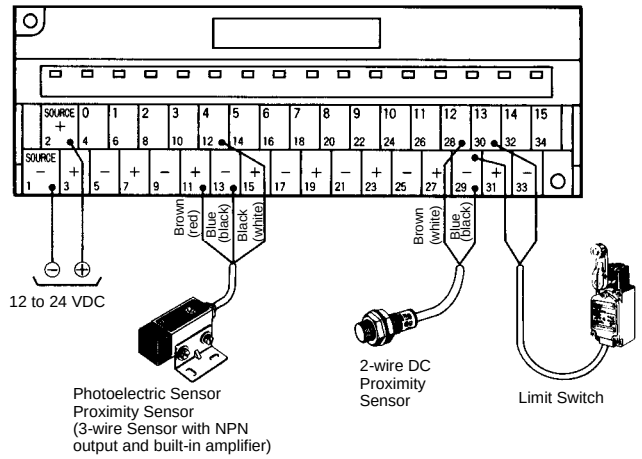
XW2C-20G5-IN16





■ TERMINAL ARRANGEMENT





Note: IEC lead wire colors of Photoelectric Sensors and Proximity Sensors are shown first. Colors in parentheses are previous ones.

Precautions

■ WIRING

Do not wire the Terminal Block while power is supplied, or the terminals may be short-circuited with the cable and the unit may malfunction.

Do not connect or disconnect the connector while power is supplied to the Terminal Block, otherwise it may malfunction.

■ TERMINAL WIRE CONNECTIONS

The wires can be connected to the M3.5 screw terminal via the following crimp terminals:
2-3.5 type (round type)
2Y-3.5 type (fork type)

■ MOUNTING

More than one XW2C Input Control Terminal Block can be densely mounted to a DIN track. To do this, move the mounting stays from both sides of the XW2C to the bottom of the XW2C.

Secure both ends of the XW2C with end plates.

Terminal Screw Tightening Torque

When connecting crimp terminals or wires to the terminal block, be sure to tighten each crimp terminal or wire to 0.59 N • m (6 kgf • cm).

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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