

EE-2001/2002

NPN to PNP Conversion Connector for Amplified Photomicrosensors

- Converts NPN output to PNP output by easy connection to amplified photomicrosensors
- Easy solution to achieve PNP output as required in the U.S. and Europe
- All amplified models can be converted to PNP by using either EE-2001 or EE-2002



Ordering Information

Applicable amplified photomicrosensor models					Part number
EE-SPX301	EE-SPY302	EE-SPZ301Y-01	EE-SPZ301W-02		EE-2001
EE-SPX401	EE-SPY402	EE-SPZ401Y-01	EE-SPZ401W-02		
EE-SPY301	EE-SPZ301-A	EE-SPZ301W-01	EE-SPZ301		
EE-SPY401	EE-SPZ401-A	EE-SPZ401W-01	EE-SPZ401		
EE-SX670/-A	EE-SX470	EE-SPY311	EE-SY671	EE-SB5V/-E	EE-2002
EE-SX671/-A	EE-SX471	EE-SPY312	EE-SY672	EE-SB5VC	
EE-SX672/-A	EE-SX472	EE-SPY411	EE-SPX303/403	EE-SB5M	
EE-SX673/-A	EE-SX473	EE-SPY412	EE-SPX311/411	EE-SB5MC	

Specifications

Note: $T_A = 25^\circ\text{C}$ (77°F), 65% RH

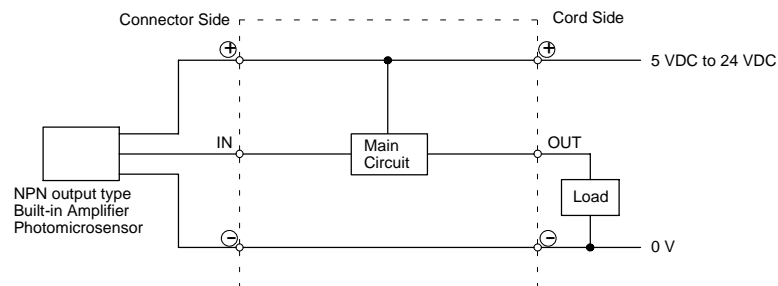
Item		Value
Supply voltage*		5 V to 24 VDC $\pm 10\%$, ripple (p-p): 5% max.
Consumption current		5 mA max. under the following conditions: Connector side: \oplus =open, short circuit between IN and \ominus Cord side: \oplus =26.4V, OUT= open, \ominus = 0 V
Control output		100 mA max. (Residual voltage = 0.8 V max.)
Ambient temperature	Operating	-10°C to 55°C (14°F to 131°F)
	Storage	-25°C to 65°C (-13°F to 149°F)
Ambient humidity	Operating	5 to 85% RH
	Storage	5 to 95% RH

*Use the indicated supply voltages for the specified products below:

Supply voltage	Part number
12 to 24 VDC $\pm 10\%$, ripple (p-p): 5% max.	EE-SPX303, EE-SPX403
5 to 15 VDC $\pm 10\%$, ripple (p-p): 5% max.	EE-SB5V/-E, EE-SB5VC
5 to 12 VDC $\pm 10\%$, ripple (p-p): 5% max.	EE-SB5M, EE-SB5MC

Operation

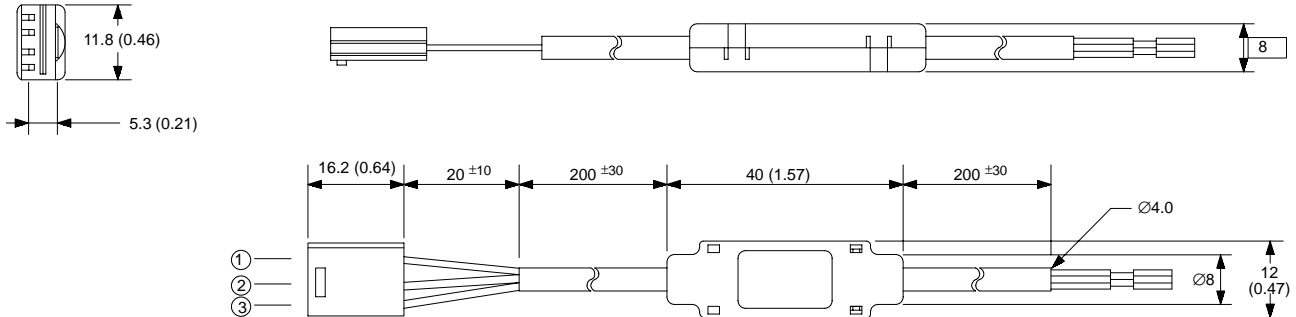
■ WIRING DIAGRAM



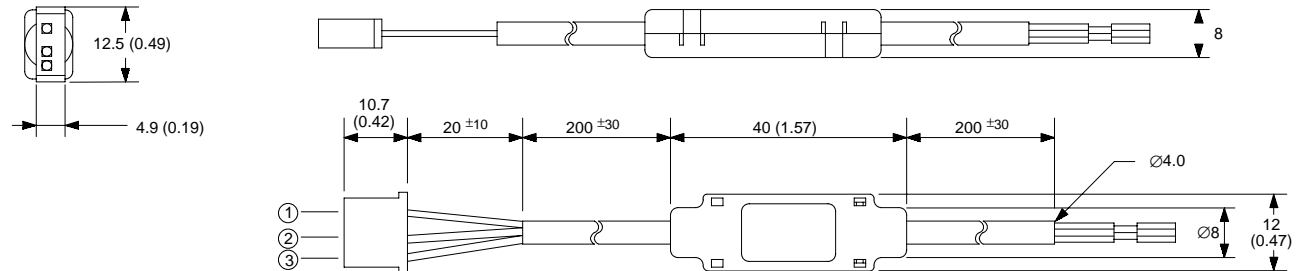
Dimensions

Unit: mm (inch)

EE-2001



EE-2002



Note: Insulator material of cable is vinyl chloride.

Terminal Arrangement

Connector side (sensor side)		Cord side (power supply side)	
Circuit no. (cable color)	Function	Cable color	Function
1 (Brown)	V _{CC} (+)	Brown	V _{CC} (+)
2 (Black)	Input (Sensor/output)	Black	Output
3 (Blue)	G (0)	Blue	G (0)

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



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