

## 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



### Ordering Information

Applicable amplified photomicrosensor models					Part number
EE-SPX301	EE-SPY302	EE-SPZ301Y-01	EE-SPZ301W-02		<b>EE-2001</b>
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	<b>EE-2002</b>
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

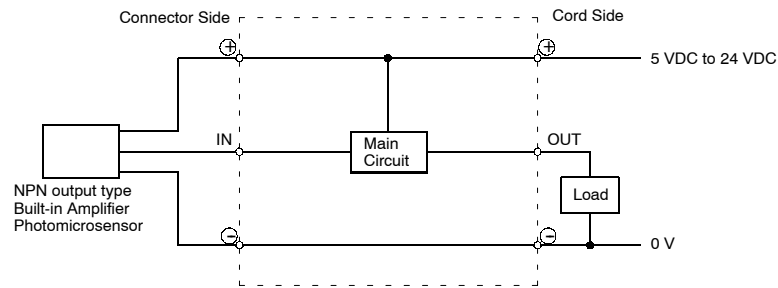
Item	Value	
Supply voltage*	5 V to 24 VDC $\pm 10\%$ , ripple (p-p): 5% max.	
Consumption current	5 mA max. under the following conditions: Connector side: $\oplus$ =open, short circuit between IN and $\ominus$ Cord side: $\oplus$ =26.4V, OUT= open, $\ominus$ = 0 V	
Control output	100 mA max. (Residual 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

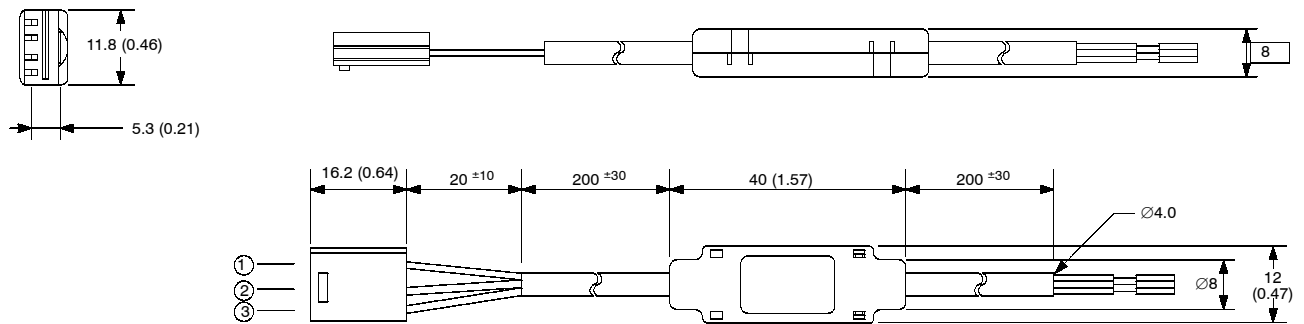
## ■ WIRING DIAGRAM



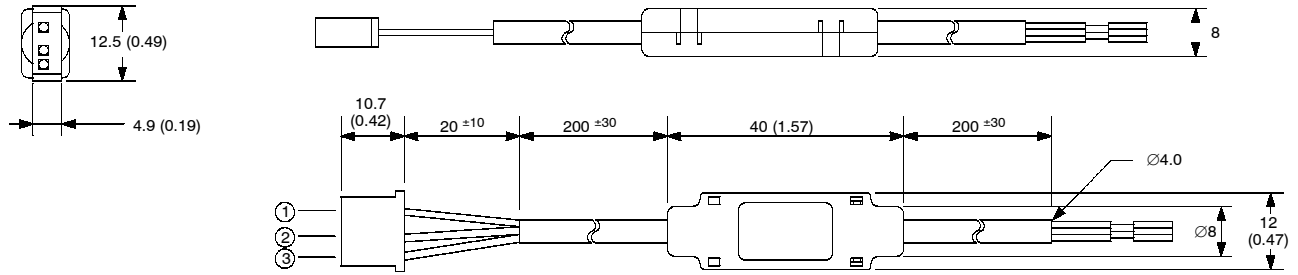
## Dimensions

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 <sub>CC</sub> (+)	Brown	V <sub>CC</sub> (+)
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.**

**OMRON**®

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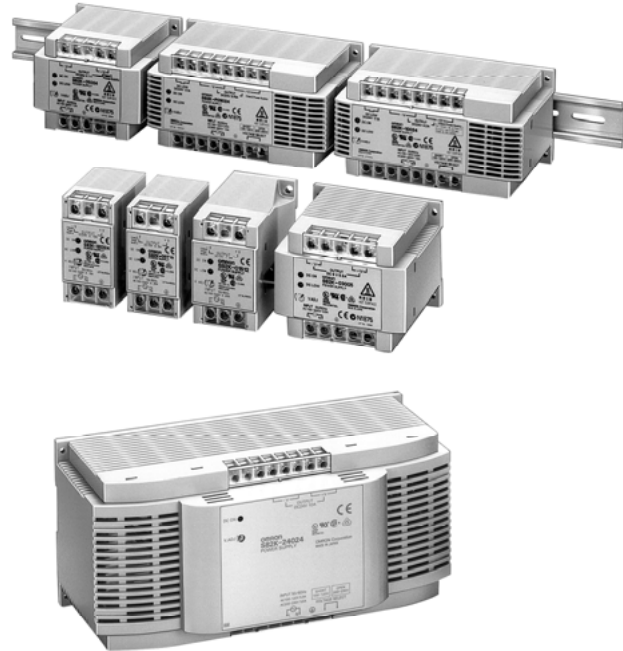
885 Milner Avenue  
Toronto, Ontario M1B 5V8

**416-286-6465**

### S82K

DIN-Rail Mount Power Supply with a Wide Power Range of 3 to 240 W

- Universal voltage range
- All models are UL 508 listed
- Class 2 approved on all models below 240-W, except dual-output types
- Undervoltage indicators on all. 90-W, 100-W and 240-W "T"-models have indicator and output
- PFC models meet EN61000-3-2 (limits for harmonic current emissions)
- Parallel operation capability (100-W and 240-W)
- Finger-safe terminal block with cover according to VDE0106/P100
- Approvals: UL, CSA, VDE, and CE
- 3-year warranty



### Ordering Information

Rated input voltage	Power ratings	Output voltage	Output current	Function configuration			Part number				
				Output	Undervoltage alarm	PFC					
100 to 240 VAC	3 W	5 V	0.6 A	Single output	Indicator only	No	S82K-00305				
		12 V	0.25 A				S82K-00312				
		15 V	0.2 A				S82K-00315				
		24 V	0.13 A				S82K-00324				
	7.5 W	5 V	1.5 A				Dual output	Indicator only	No	S82K-00705	
		12 V	0.6 A							S82K-00712	
		15 V	0.5 A							S82K-00715	
		24 V	0.3 A							S82K-00724	
	15 W	5 V	+12 V/-12 V				0.3 A/0.2 A	Dual output	Indicator only	No	S82K-00727
			+15 V/-15 V				0.2 A/0.2 A				S82K-00728
			5 V				2.5 A				Single output
	12 V	1.2 A	S82K-01512								
	24 V	0.6 A	S82K-01524								
	30 W	5 V	5 V	5.0 A	Single output	Indicator only	No	S82K-03005			
			12 V	2.5 A				S82K-03012			
			24 V	1.3 A				S82K-03024			
50 W	24 V	2.1 A	Single output	Indicator only	No	S82K-05024					

(This table continues on the next page.)

Rated input voltage	Power ratings	Output voltage	Output current	Function configuration			Part number
				Output	Undervoltage alarm	PFC	
120/240 VAC selectable	90 W	24 V	3.75 A	Single output	Indicator and output	No	<b>S82K-P09024</b>
						Yes	<b>S82K-09024</b>
	100 W	24V	4.2 A			No	<b>S82K-P10024</b>
						Yes	<b>S82K-10024</b>
120/230 VAC selectable	240 W	24 V	10 A	None	No	<b>S82K-24024T</b>	
					Yes	<b>S82K-24024</b>	
100 to 230 VAC						Yes	<b>S82K-P24024</b>

## S82J

### DIN-Rail Mounting Industrial Power Supplies with Capacity Up to 600 W

- Models range from 10 to 600 W
- UL 508 approval
- Class 2 approval available for models below 100 W
- Universal input or selectable input
- Wide range of output voltages: 5 V, 12 V, 15 V, or 24 V
- UL, CSA, VDE, and CE Approvals
- 3-Year warranty



## Ordering Information

### ■ OPEN-FRAME TYPE POWER SUPPLIES

Rated input voltage	Power ratings	Output		Part number	
		Voltage	Current	Front-mounting bracket	DIN-rail mounting bracket
100 to 240 VAC	10 W	5 V	2 A	S82J-01005A	S82J-01005AD
		12 V	1 A	S82J-01012A	S82J-01012AD
		15 V	0.7 A	S82J-01015A	S82J-01015AD
		24 V	0.5 A	S82J-01024A	S82J-01024AD
	25 W	5 V	5 A	S82J-02505A	S82J-02505AD
		12 V	2.1 A	S82J-02512A	S82J-02512AD
		15 V	1.7 A	S82J-02515A	S82J-02515AD
		24 V	1.1 A	S82J-02524A	S82J-02524AD
	50 W	5 V	10 A	S82J-05005A	S82J-05005AD
		12 V	4.2 A	S82J-05012A	S82J-05012AD
		24 V	2.1 A	S82J-05024A	S82J-05024AD
	120 or 240 VAC (automatically selected)	100 W	5 V	20 A	S82J-10005A
	12 V		8.5 A	S82J-10012A	S82J-10012AD
	15 V		7 A	S82J-10015A	S82J-10015AD
100 to 240 VAC	24 V		4.5 A	S82J-10024A	S82J-10024AD
120 or 240 VAC (automatically selected)	150 W	24 V	6.5 A	S82J-15024A	S82J-15024AD

## ■ COVERED-FRAME TYPE POWER SUPPLIES

Rated input voltage	Power ratings	Output		Part number	
		Voltage	Current	Front-mounting bracket	DIN-rail mounting bracket
100 to 240 VAC	10 W	5 V	2 A	S82J-01005D	S82J-01005DD
		12 V	1 A	S82J-01012D	S82J-01012DD
		15 V	0.7 A	S82J-01015D	S82J-01015DD
		24 V	0.5 A	S82J-01024D	S82J-01024DD
	25 W	5 V	5 A	S82J-02505D	S82J-02505DD
		12 V	2.1 A	S82J-02512D	S82J-02512DD
		15 V	1.7 A	S82J-02515D	S82J-02515DD
		24 V	1.1 A	S82J-02524D	S82J-02524DD
	50 W	5 V	10 A	S82J-05005D	S82J-05005DD
		12 V	4.2 A	S82J-05012D	S82J-05012DD
		24 V	2.1 A	S82J-05024D	S82J-05024DD
	120 or 240 VAC (automatically selected)	100 W	5 V	20 A	S82J-10005D
100 to 240 VAC	12 V		8.5 A	S82J-10012D	S82J-10012DD
	15 V		7 A	S82J-10015D	S82J-10015DD
	24 V		4.5 A	S82J-10024D	S82J-10024DD
120 or 240 VAC (automatically selected)	150 W	24 V	6.5 A	S82J-15024D	S82J-15024DD

## ■ ENCLOSED-FRAME TYPE POWER SUPPLIES

Input voltage	Power rating	Output		Part number
		Voltage	Current	
120 or 230 VAC (selectable)	300 W	24 V	14.0 A	S82J-30024
	600 W	24 V	27.0 A	S82J-60024

- Note: 1. A mounting bracket is included with each power supply.  
 2. To order without a mounting bracket (normally included with the 300 W or 600 W), add an "N" at the end of the part number.  
 3. For other accessories, refer to the *Accessories* section that follows.



## S8VS

### Small Sized, DIN-Rail Mount Power Supply With LED Display

- Ultra-compact size 40 W x 95 H (60 W model)
- 3-digit, 7-segment LED display shows status at a glance for output voltage, output current, peak current, lifetime years, and run time hours
- Incorporates a maintenance forecast monitor that displays the remaining life of the power supply, displayed in years
- Run-Time monitor model displays how long the output has been on, displayed in thousands of hours
- 90 W model has two outputs; one for undervoltage output and the other is for either the lifetime monitor or run time monitor
- Approved by UL, cUL, UL508 Listed, Class 2 output (60 W only)
- CE marked
- Three-year warranty



## Ordering Information

Power ratings	Type	Output voltage	Output current	Part number
60 W	Standard	24 V	2.5 A	S8VS-06024
	With maintenance forecast monitor			S8VS-06024A
	With total runtime monitor			S8VS-06024B
90 W	Standard		3.75 A	S8VS-09024
	With maintenance forecast monitor			S8VS-09024A
	With total runtime monitor			S8VS-09024B

## S8TS

Block-type Power Supply Easily  
Connects With Multiple Units and Offers  
Many Output Combinations

- AC/DC Bus System
- Up to four blocks can be connected to increase power from 60 to 240 W
- N+1 redundant capability to highly reliable system
- Flexible connection for mult-output power supply (5 V, 12 V, 24 V outputs)
- Size consistency minimizes stock types
- UL 508 listed, Class 2 output and Class 1 Div. 2 approved
- Complies with EN6100-3-2 (limits for harmonic current)
- 3-year warranty



## Ordering Information

### ■ BASIC BLOCK

Description		Part number	
Output voltage	Output current	With line bus connectors	Without line bus connector
24 V	2.5 A	<b>S8TS-06024F-E1</b>	<b>S8TS-06024F</b>
12 V		<b>S8TS-03012F-E1</b>	<b>S8TS-03012F</b>
5 V	5 A	—	<b>S8TS-02505F</b>

### ■ BUS LINE CONNECTOR

Type	Part number
AC line + DC line bus (for parallel operation)	<b>S8T-BUS01</b>
AC line bus (for series operation or isolated operation)	<b>S8T-BUS02</b>

### ■ ACCESSORIES

Type	Length	Width	Part number
DIN rail	0.5 m (1.64 ft.)	7.3 mm (0.29 in)	<b>PFP-50N</b>
	1 m (3.28 ft.)	7.3 mm (0.29 in)	<b>PFP-100N</b>
	1 m (3.28 ft.)	16 mm (0.63 in)	<b>PFP-100N2</b>
End plate			<b>PFP-M</b>

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