

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		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

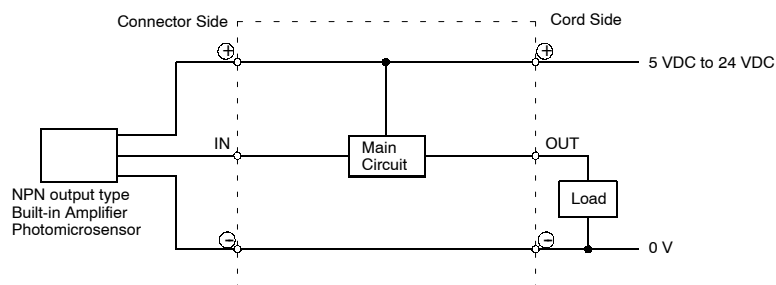
Item		Value
Supply voltage*		5 V to 24 VDC $\pm 10\%$, ripple (p-p): 5% max.
Consumption current		5 mA max. under the following conditions: Connector side: $\oplus$ =open, short circuit between IN and $\ominus$ Cord side: $\oplus$ =26.4V, OUT= open, $\ominus$ = 0 V
Control output		100 mA max. (Residual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

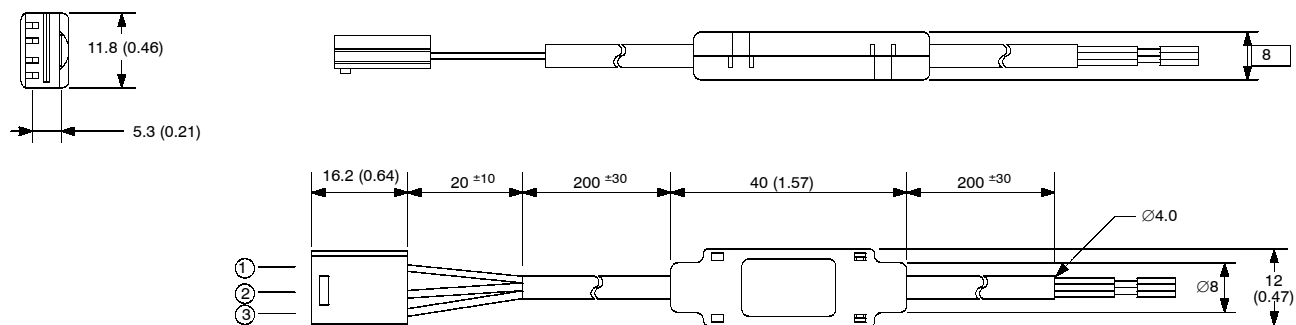
■ WIRING DIAGRAM



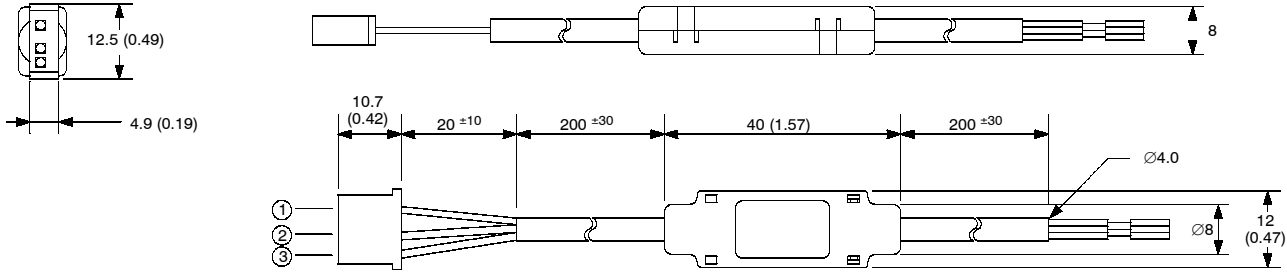
Dimensions

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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OMRON ELECTRONICS LLC

One East Commerce Drive
Schaumburg, IL 60173

1-800-55-OMRON

OMRON ON-LINE

Global - <http://www.omron.com>

USA - <http://www.omron.com/oei>

Canada - <http://www.omron.com/oci>

OMRON CANADA, INC.

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				S82K-00705
		12 V	0.6 A				S82K-00712
		15 V	0.5 A				S82K-00715
		24 V	0.3 A				S82K-00724
		+12 V/-12 V	0.3 A/0.2 A	Dual output			S82K-00727
		+15 V/-15 V	0.2 A/0.2 A				S82K-00728
	15 W	5 V	2.5 A	Single output			S82K-01505
		12 V	1.2 A				S82K-01512
		24 V	0.6 A				S82K-01524
	30 W	5 V	5.0 A				S82K-03005
		12 V	2.5 A				S82K-03012
		24 V	1.3 A				S82K-03024
	50 W	24 V	2.1 A			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	S82K-P09024
						Yes	S82K-09024
	100 W	24V	4.2 A			No	S82K-P10024
						Yes	S82K-10024
120/230 VAC selectable	240 W	24 V	10 A		None	No	S82K-24024T
S82K-24024							
100 to 230 VAC					Yes	S82K-P24024	

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
	100 W	5 V	20 A	S82J-10005A	S82J-10005AD
120 or 240 VAC (automatically selected)		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	S82J-10005DD
		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
100 to 240 VAC					
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	S8TS-06024F-E1	S8TS-06024F
12 V		S8TS-03012F-E1	S8TS-03012F
5 V	5 A	—	S8TS-02505F

■ BUS LINE CONNECTOR

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

■ ACCESSORIES

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

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OMRON ELECTRONICS LLC

One East Commerce Drive
Schaumburg, IL 60173

1-800-55-OMRON

OMRON ON-LINE

Global - <http://www.omron.com>

USA - <http://www.omron.com/oei>

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OMRON CANADA, INC.

885 Milner Avenue
Toronto, Ontario M1B 5V8

416-286-6465



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Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331