Accessories for 8B Analog Modules

Features

- Single Channel DIN Rail Mounting Accessory
- 2-, 4-, 8-, 16-Position Backpanels
- Panel or DIN Rail Mounting Options
- 19-Inch Mounting Rack for Backpanels

8BP01

Single Channel DIN Rail Mount Carrier

Description

The 8BP01 provides simple mounting and I/O connections for any of the 8B signal conditioners. 8BP01-205 and 8BP01-305 models accept 5V power and provide it to the module. 8BP01-224 and 8BP01-324 models accept wide range 7-34VDC power and provide 5V power to the module through an on-board power converter. The 8B

- Interface Cables
- Cable-to-Screw-Terminal Interface Board
- Power Supplies



and 8BP01- (59mm x 90mm x 16.5mm), making it ideal for use in high-density provide 5V installations (see Figure 1). It has a flammability rating of UL94 V-0. er. The 8B

Specifications Typical* at T_a = +25°C and +5VDC power Typical* at T_a = +25°C and +24VDC power

Ordering Information

carrier can be mounted on any standard DIN rail (EN 50022-35 and

EN 50035-G32). The 8BP01 measures only 2.32" x 3.54" x 0.65"

Module	8BP01-205, -305	8BP01-224, -324	Part Number	Description
Input Voltage Range Over-Voltage Protection Over-Voltage Shutdown Voltage Under-Voltage Turn-on Reverse Voltage Protection	4.85 to 5.2VDC 6V TVS, 1A Fuse, OV detection 5.6V max – 1A Fuse	7 to 34VDC 36V TVS, 1A Fuse, OV detection 35.5V max 6.5V min 1A Fuse	8BP01-205 8BP01-305 8BP01-224 8BP01-324	5V Power, No CJC 5V Power, CJC 24V Power, No CJC 24V Power, CJC
Output Voltage Regulation Power Indicator Output Voltage Temp. Coeff. Output Current	− Green LED ±200ppm/°C 250mA max (−40°C to +85°C)	5VDC ±1% Green LED ±200ppm/°C 250mA max (-40°C to +85°C)		
Output Current Limit Line Regulation Load Regulation Efficiency	- - - -	0.8A, Auto Recovery ±0.25% ±0.5% 75%	 Installation Notes: 1.) This Equipment is Suitable for Use in Class I, Division 2, Group A, B,C, D, or Non-Hazardous Locations Only. 2.) WARNING - Explosion Hazard - Substitution of Any Componer May Impair Suitability for Class I, Division 2. 3.) WARNING - Explosion Hazard - Do Not Disconnect Equipment Unless Power Has Been Switched Off or The Area is Known to Non-Hazardous. 	
Output Ripple	-	<50mVpk-pk		
Mechanical Dimensions (h)(w)(d)	2.32" x 3.54" x 0.65" (59mm x 90mm x 16.5mm)	2.32" x 3.54" x 0.65" (59mm x 90mm x 16.5mm)		

NOTES: *Contact factory or your local Dataforth sales office for maximum values.

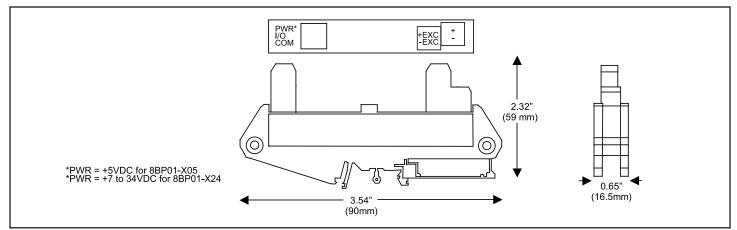


Figure 1: 8BP01 Single Channel DIN Rail Mount Carrier

Visit our website www.dataforth.com

DATAFORTH®

8BP02, 8BP04, 8BP08, 8BP16



2-, 4-, 8-, and 16-Position Analog I/O Backpanels

Description

The 8BP02, 04, 08, and 16 backpanels can accept any of the 8B analog I/O modules in any mixture and can be mounted on the SCMXRK-002 19-inch metal rack. Analog I/O signal channels provide each module with its own analog bus. All module outputs are simultaneously accessible to high-speed data acquisition (ADC) boards. A temperature sensor is mounted on each channel to provide cold junction compensation for thermocouple input modules (see Figure 6 for schematic). Field connections are terminated with four screw terminals at each module site. Use system interface cable SCMXCA006-XX for connection to the host system.

Specifications

Operating Temperature Relative Humidity	-40°C to +85°C 95% Noncondensing
Interface Connector: Field System	high density screw clamp, 16 AWG max high density screw clamp, 16 AWG max
Isolation: Input-to-Output Channel-to-Channel	1500Vrms continuous, max 1500Vrms continuous, max

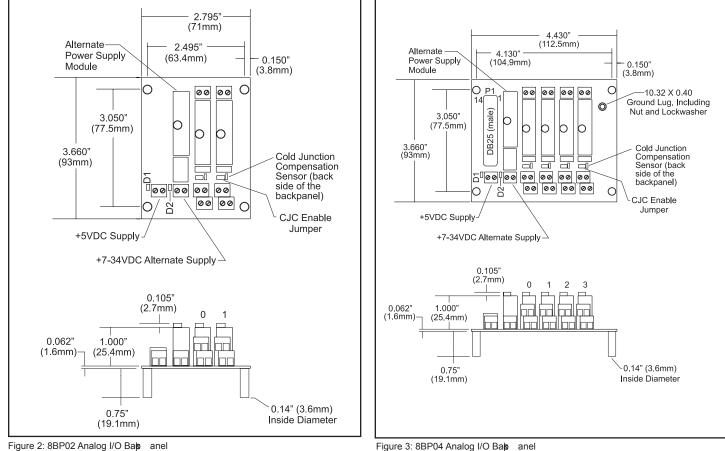


Figure 2: 8BP02 Analog I/O Bab anel

138

For information call 800-444-7644

Electrical

Power

The 8B backpanels have two power supply options. A +5VDC ±5% supply can be connected to the '+5V Supply' terminal block, or alternatively, a wide ranging 7-34VDC supply can be connected to the 'Alternate Supply' terminal block. In the latter case, the 8BPWR-2 module must be installed on the backpanel. The backpanel contains circuitry which automatically switches between the supplies such that only one at a time provides power to the modules. When power connections are made to both terminal blocks simultaneously, the 7-34VDC supply takes precedence over the +5VDC supply.

Fusing

Backpanel power is fuse-protected through F1 and F2. Zener diodes D3 and D4 provide extra protection from overvoltage and supply reversal.

Grounding

For full protection against large electrical disturbances on the field-side of the 8B modules, a #10-32 ground stud is provided on the backpanel. An electrical connection between this ground stud and the system ground should be provided with a large gage wire of the shortest possible length.

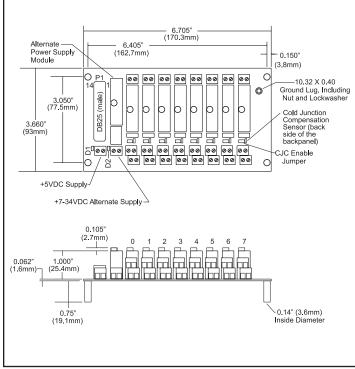


Figure 4: 8BP08 Analog I/O Bab anel

Ordering Information

Part NumberDescription8BP02Standard 2-channel backpanel with standoffs for mounting.8BP02-118BP02 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP02-28BP02 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP04-38BP02-1 with DIN rail mounting option.8BP04Standard 4-channel backpanel with standoffs for mounting.8BP04.18BP04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP04-28BP04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP04-38BP04 with DIN rail mounting option.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP08-18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.		
8BP02-18BP02 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP02-28BP02 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP02-38BP02-1 with DIN rail mounting option.8BP04Standard 4-channel backpanel with standoffs for mounting.8BP04-18BP04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP04-18BP04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP04-28BP04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP08-18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP08-28BP08 with DIN rail mounting option.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP168BP16 with DIN rail mounting option.8BP168BP16 with DIN rail mounting option.8BP168BP16 with DIN rail mounting option.<	Part Number	Description
cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP02-28BP02 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP02-38BP02-1 with DIN rail mounting option.8BP04Standard 4-channel backpanel with standoffs for mounting.8BP04.18BP04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP04-28BP04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP04.38BP04-1 with DIN rail mounting option.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP08.18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP08-38BP08-1 with DIN rail mounting option.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP168BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-18BP16 with DIN rail mounting option.8BP16-18BP16 without cold	8BP02	Standard 2-channel backpanel with standoffs for mounting.
captured by DIN rail mounting elements and is shipped fully assembled.8BP02-38BP02-1 with DIN rail mounting option.8BP04Standard 4-channel backpanel with standoffs for mounting.8BP04-18BP04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP04-28BP04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP04-38BP04-1 with DIN rail mounting option.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP08-18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-28BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is ca	8BP02-1	cost savings are desired and thermocouple input modules
88P04Standard 4-channel backpanel with standoffs for mounting.88P04-188P04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.88P04-288P04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.88P04-388P04-1 with DIN rail mounting option.88P08Standard 8-channel backpanel with standoffs for mounting.88P08Standard 8-channel backpanel with standoffs for mounting.88P08-188P08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8837 and 8847 will not be used.88P08-288P08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8837 and 8847 will not be used.88P08-288P08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.88P16Standard 16-channel backpanel with standoffs for mounting.88P16-188P16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8837 and 8847 will not be used.88P16-188P16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8837 and 8847 will not be used.88P16-188P16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8837 and 8847 will not be used.88P16-288P16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.	8BP02-2	captured by DIN rail mounting elements and is shipped
 8BP04-1 8BP04 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP04-2 8BP04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 8BP04-3 8BP04-1 with DIN rail mounting option. 8BP08 Standard 8-channel backpanel with standoffs for mounting. 8BP08-1 8BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP08-2 8BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting option. 8BP08-3 8BP08-1 with DIN rail mounting option. 8BP16 Standard 16-channel backpanel with standoffs for mounting. 8BP16 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-1 8BP16 Standard 16-channel backpanel with standoffs for mounting. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP02-3	8BP02-1 with DIN rail mounting option.
cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP04-28BP04 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP04-38BP04-1 with DIN rail mounting option.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP088BP08-18BP08-18BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP168BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-28BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.	8BP04	Standard 4-channel backpanel with standoffs for mounting.
captured by DIN rail mounting elements and is shipped fully assembled.8BP04-38BP04-1 with DIN rail mounting option.8BP08Standard 8-channel backpanel with standoffs for mounting.8BP088BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-18BP16 Standard 16-channel backpanel with standoffs for mounting.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-28BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.	8BP04-1	cost savings are desired and thermocouple input modules
 8BP08 Standard 8-channel backpanel with standoffs for mounting. 8BP08-1 8BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP08-2 8BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 8BP08-3 8BP08-1 with DIN rail mounting option. 8BP16 Standard 16-channel backpanel with standoffs for mounting. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP04-2	captured by DIN rail mounting elements and is shipped
 8BP08-1 8BP08 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP08-2 8BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 8BP08-3 8BP08-1 with DIN rail mounting option. 8BP16 Standard 16-channel backpanel with standoffs for mounting. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP04-3	8BP04-1 with DIN rail mounting option.
cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP08-28BP08 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.8BP08-38BP08-1 with DIN rail mounting option.8BP16Standard 16-channel backpanel with standoffs for mounting.8BP16-18BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used.8BP16-28BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled.	8BP08	Standard 8-channel backpanel with standoffs for mounting.
 captured by DIN rail mounting elements and is shipped fully assembled. 8BP08-3 8BP08-1 with DIN rail mounting option. 8BP16 Standard 16-channel backpanel with standoffs for mounting. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP08-1	cost savings are desired and thermocouple input modules
 8BP16 Standard 16-channel backpanel with standoffs for mounting. 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP08-2	captured by DIN rail mounting elements and is shipped
 8BP16-1 8BP16 without cold junction compensation sensor. Use when cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP08-3	8BP08-1 with DIN rail mounting option.
 cost savings are desired and thermocouple input modules 8B37 and 8B47 will not be used. 8BP16-2 8BP16 with DIN rail mounting option. The backpanel is captured by DIN rail mounting elements and is shipped fully assembled. 	8BP16	Standard 16-channel backpanel with standoffs for mounting.
captured by DIN rail mounting elements and is shipped fully assembled.	8BP16-1	cost savings are desired and thermocouple input modules
8BP16-3 8BP16-1 with DIN rail mounting option.	8BP16-2	captured by DIN rail mounting elements and is shipped
	8BP16-3	8BP16-1 with DIN rail mounting option.

Installation Notes:

- 1.) This Equipment is Suitable for Use in Class I, Division 2, Groups A, B,C, D, or Non-Hazardous Locations Only.
- 2.) WARNING Explosion Hazard Substitution of Any Components May Impair Suitability for Class I, Division 2.
- 3.) WARNING Explosion Hazard Do Not Disconnect Equipment Unless Power Has Been Switched Off or The Area is Known to be Non-Hazardous.

Visit our website www.dataforth.com

139

DATAFORTH[®]

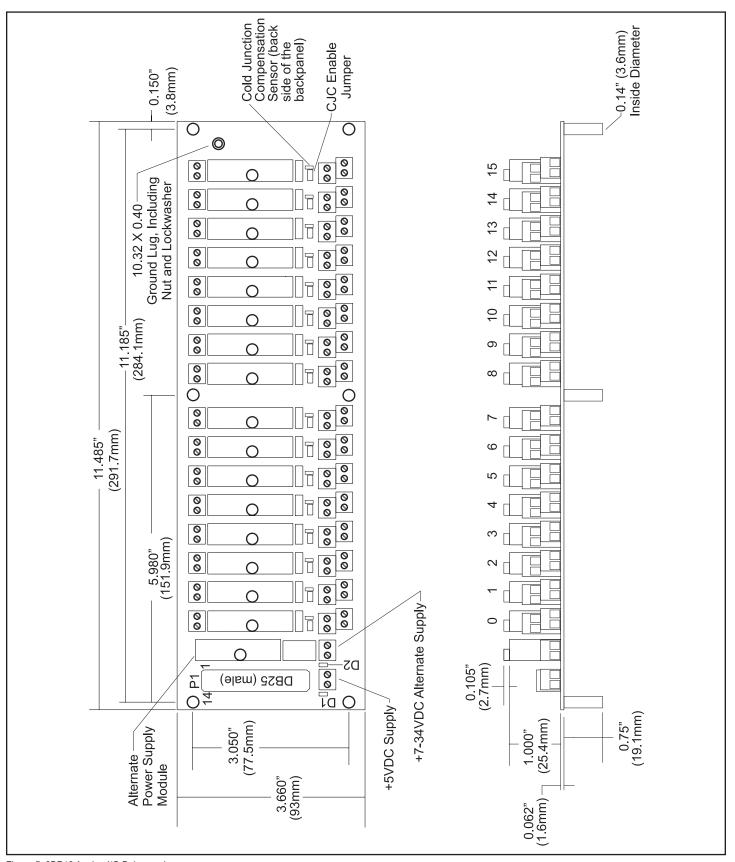


Figure 5: 8BP16 Analog I/O Bab anel

DATAFORTH®

8B

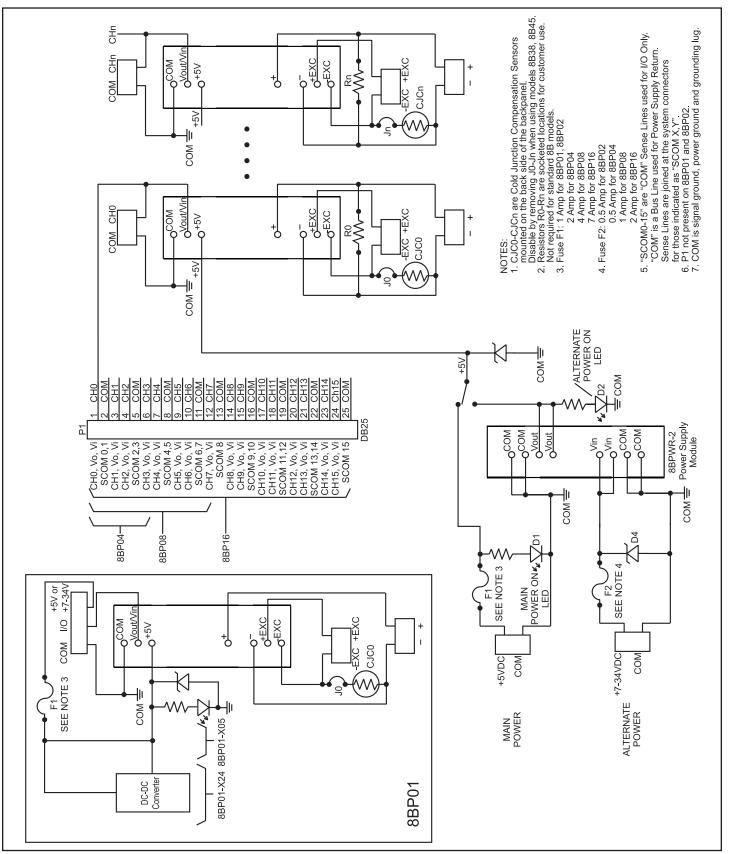


Figure 6: 8BP01/8BP02/8BP04/8BP08/8BP16 Sb ematic

Visit our website www.dataforth.com

Phi**l**ips Head

8BPWR-2 Power Supply Module



Description

The 8BPWR-2 encapsulated power supply has a wide ranging 7-34VDC input voltage range and provides 5VDC output suitable for all 8B modules. It is designed to mount on the 8B backpanels. The compact size and low weight are ideal for high-density applications (see Figure 7).

Specifications Typical* at T₄ = +25°C and +24VDC power

Module	8BPWR-2	
Input Voltage Range Overvoltage Protection Reverse Voltage Protection	7 to 34VDC None (provided on backpanel) None (provided on backpanel)	
Output Voltage Output Voltage Temp. Coeff. Output Current Output Current Limit Line Regulation Load Regulation Efficiency	5VDC ±1% ±200ppm/°C 3A (-40°C to +65°C) 2A (85°C) 4A, Auto Recovery ±0.20% ±0.30% 85%	
Output Ripple	50mVp-p	
Mechanical Dimensions (h)(w)(d)	1.11" x 1.65" x 0.40" (28.1mm x 41.9mm x 10.2mm)	



NOTES: *Contact factory or your local Dataforth sales office for maximum values.

SCMXPRT-001/D, SCMXPRE-001/D

Power Supplies

Description

The SCMXPRT-001/D and SCMXPRE-001/D encapsulated power supplies are available in 120VAC or 220VAC input voltage ranges and provide 5VDC outputs suitable for all 8B modules. They are designed to mount on the SCMXRK-002 metal rack (see Figure 13) or DIN rail EN 50022-35x7.5 (D versions). The supplies are UL-recognized. Their compact size and low weight are ideal for high-density applications (see Figure 8).

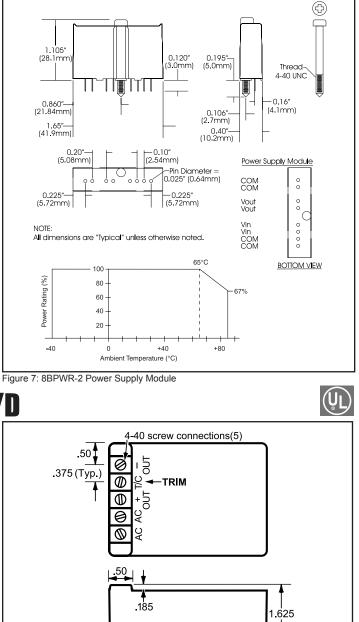
Specifications Typical* at T₄ = +25°C

Module	8BPWR-2	8BPWR-2
Input Voltage Range, 47Hz to 420Hz	105 to 125VAC	210 to 250VAC
Output Voltage	5VDC	5VDC
Output Current, +50°C	1A	1A
Operating Temperature	-20°C to +71°C	-20°C to +71°C
Line Regulation	±0.05%	±0.05%
Load Regulation	±0.25%	±0.25%
Output Ripple, max	1mVrms	1mVrms
Weight	1.25 lbs (567g)	1.25 lbs (567g)

NOTES:

142

*Contact factory or your local Dataforth sales office for maximum values. Supplies are UL recognized, File No. E45344.

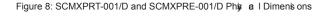


Ð

Ф

2.20

2,50



3.20

MOUNTING HOLES (4) 4-40 x 0.375" Deep

3.50

æ

For information call 800-444-7644



SCMXPRT-003, SCMXPRE-003

Power Supplies

Description

The SCMXPRT/E-003 linear power supplies are available in 120VAC or 220VAC input. They have sufficient output current capacity to supply any combination of 8B modules. The SCMXRK-002 metal rack provides mounting capability for the SCMXPRT/E-003 power supplies (see Figure 13).

Specifications Typical* at T, = +25°C

Module	SCMXPRT-003	SCMXPRE-003
Input Voltage Range, 47Hz to 63Hz	104 to 132VAC	207 to 265VAC
Output Voltage	5VDC ±1%	5VDC ±1%
Output Current (at +70°C)	3A	3A
Output Current (at +50°C)	6A	6A
Operating Temp	0 to +70°C	0 to +70°C
Dielectric Withstand Voltage (input to ground)	3750VAC	3750VAC
Line Regulation (10% line change)	±0.05%	±0.05%
Load Regulation (50% load change)	±0.05%	±0.05%
Output Ripple (max)	5mVp-p	5mVp-p
Overvoltage Protection (factory set)	6.2V ±0.4V	6.2V ±0.4V

NOTES:

*Contact factory or your local Dataforth sales office for maximum values. Both supplies are tested and certified by TUV to VDE 0806 and IEC 380. They are UL recognized (File Number E55974), CSA Certified (CSA File Number LR38879), and CE Compliant.

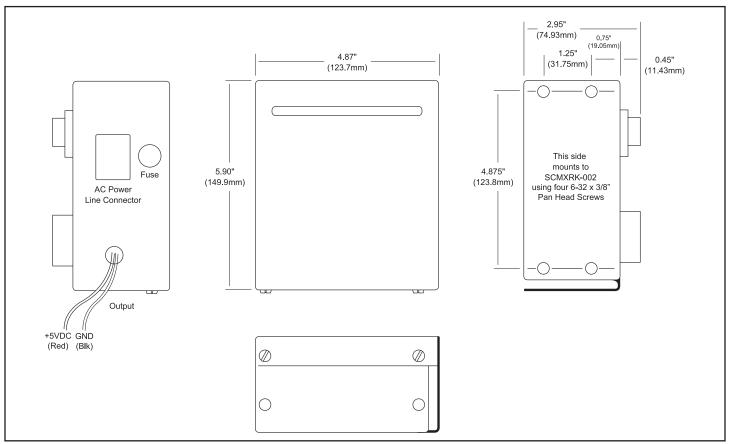


Figure 9: SCMXPRT-003/E-003 Phy e I Dimensions

Visit our website www.dataforth.com

DATAFORTH[®]

(U) (E 🕑

PWR-4505

25W Single Output Industrial DIN Rail Switching Power Supply

Specifications Typical* at T_A = +25°C

	A
Input	85 to 264VAC, 120 to 370VDC
Frequency	47 to 63Hz
Input Current	1.5A/115VAC, 0.75A/230VAC
Inrush Current	Cold start 30A/115VAC, 60A/230VAC
Efficiency	72%
Output Voltage & Current Rating	5V, 5A
Temperature Coefficient	±0.03%/°C
Ripple Voltage	100mVp-p
Overload Protection	105 to 150% rated output power
Over Voltage Protection	5.75 to 6.75V
Over Temperature Protection	135°C detect on heatsink of power transistor
Dielectric Strength	Between input and output terminals: 3kV, 1 minute Between input and FG: 1.5kV, 1 minute Between output and FG: 0.5kV, 1 minute
Insulation Resistance	Between input and output terminals/input and FG/ output and FG: $100 M\Omega/500 VDC$
Operating Temperature	−10°C to +50°C
Storage Temperature	−20°C to +85°C
Relative Humidity	10 to 95%
Mechanical Dimensions	3.66" x 3.07" x 2.24"
(I)(w)(h)	(93mm x 78mm x 57mm)
Terminal Screw	M3

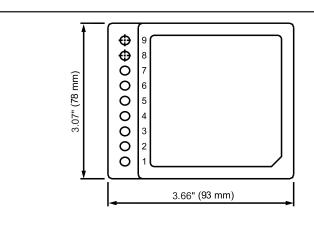
Features

- Universal AC Input (85 to 264VAC)
- DC Compatible Input (120 to 370VDC)
- Protections: Short Circuit, Overload, Over Voltage, Over Temperature
- Mounts on DIN Rail TS-35/7.5 & 15
- Approvals: UL, CUL, TUV, CB, CE
- CE Compliant, UL 508 Listed
- TUV EN60950-1 Approved
- Compliant with EMC Directive EN50082-2
- LED Indicator for Power On



NOTES:

*Contact factory or your local Dataforth sales office for maximum values.



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	6,7	DC OUTPUT+V
2	AC/N	8	LED
3	FG 🖨	9	+VADJ.
4,5	DC OUTPUT-V		

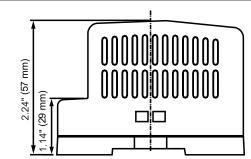


Figure 10: PWR-4505 Physe a I Dimensions

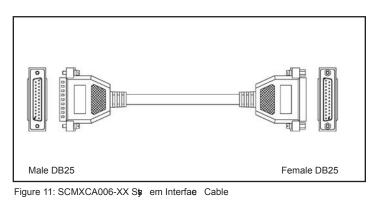
SCMXCA006-01, -02, -07

Interface Cables

Description

SCMXCA006-XX

System interface cable for the 8BP04/08/16 backpanels. This is a DB25 Male/Female cable assembly. It can be ordered in lengths of 1m, 2m, and 7m (see Figure 11).



SCMXRK-002

19-Inch Metal Mounting Rack

Description

The SCMXRK-002 is a 19-inch metal rack for mounting the 8BP04/08/16 backpanels and the 8BXIF interface board (see Figure 13 for dimensions).



Description

The 8BXIF is a universal interface board which converts a DB25 cable input to 25 screw terminals for discrete wire. It can be mounted on the back of the SCMXRK-002 mounting rack (8BXIF) or on a DIN rail (8BX-IF-DIN). Required mounting hardware is included. Use SCMXCA006-XX cable (see Figure 12 for dimensions).

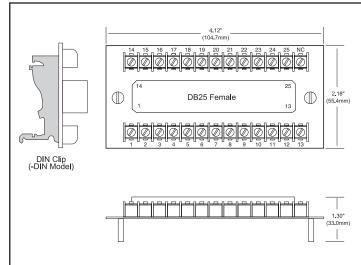


Figure 12: 8BXIF Unie ra I Interfae Board Dimensions

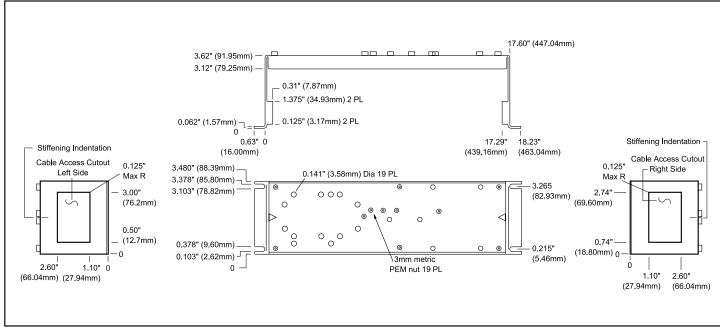


Figure 13: SCMXRK-002 Analog Rak Dimensions

Visit our website www.dataforth.com