DSCP70

Power Supply Connection Module for DIN-rail Power Bus

DESCRIPTION

The DSCP70 power supply connection module permits the delivery of power to DSCP6x modules through DIN-rail-mounted power-bus connectors. An external power supply, or supplies for redundant operation, are connected to the terminals of the DSCP70. The DSCP70 then routes the power to the DIN-rail power-bus, provides protection against power supply reversal, provides LED status indication of correct power, inverted power connection and presence of AC, and provides over-voltage protection.



FEATURES

- Delivers Power to DSCP6x Modules via DIN-rail
- Two Independent Inputs Allow Redundant Power
- LED Indication of Power Supply Presence
- LED Indication of Reversed Power Connection
- 19.2-30VDC Power
- Spring-cage Clamp Connection
- Compact 6.2mm DIN Housing
- CE Compliant

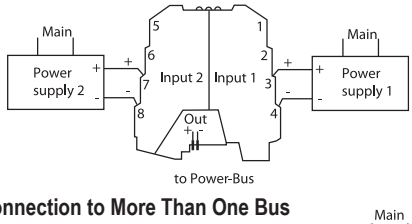
BENEFITS

- Protection Against Power Reversals
- DIN-rail Flexibility

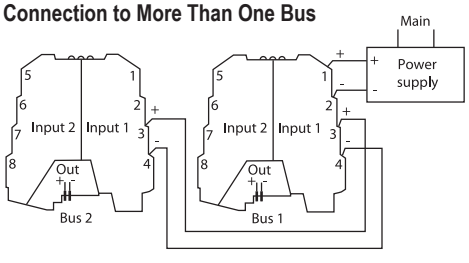
APPLICATIONS

- Data Acquisition
- Test and Measurement
- Control Systems

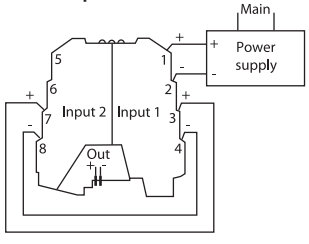
Example of Connection with Redundant Power Supply



Example of Connection to More Than One Bus



Example of Connection with Inputs Connected in Parallel: 2A Output



DSCP70 Electrical Connections

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Specifications

Typical* at T_A = +25°C and +24VDC Loop Power

Module	DSCP70
Input Voltage Current Capacity Protection	 19.2-30VDC 4A Maximum per Terminal Each Positive Input Must Have an External Fuse
Output Internal Voltage Drop Current Capacity Filter Power Consumption	 300mV One Input = 1.6A Parallel Inputs 1 and 2 = 2A Differential Mode: 4.7mH and two 470nF per Input 5mA per Input (max)
Mechanical Dimensions (w x h x d)	0.24" x 3.67" x 4.04" (6.2mm x 93.1mm x 102.5mm)
Housing	Terminal Housing for Mounting on 35mm DIN 46277
Connections	Spring-cage Clamp
Weight	1.6 ounces (46g)
Environmental Operating Temp. Range Storage Temp. Range Relative Humidity IP Protection Emissions Immunity	 –20°C to +65°C –40°C to +85°C 0 to 90%, Noncondensing IP20 EN61000-6-4 EN61000-6-2

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

Ordering Information

Model	Description
DSCP70	Power Supply Connection Module

Accessories

Model	Description
DSCX-02	DIN-rail Expandable Power-bus Connector

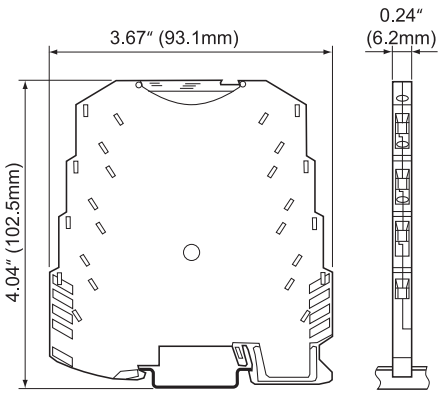
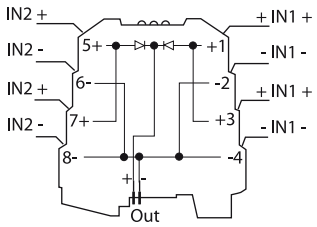
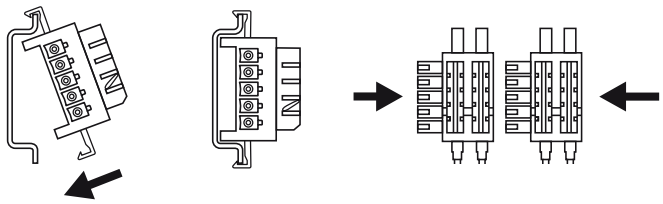


Figure 1: Dimensional Drawing

Internal Wiring



Expandable Power-bus Connector



Spring-cage Clamp Connection

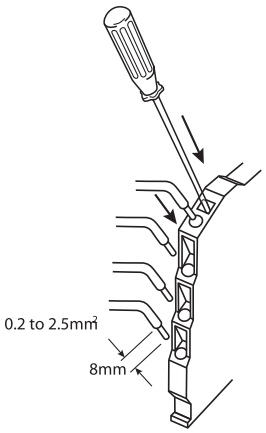


Figure 2: Module Installation

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