

DSCP65

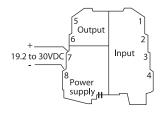
DC Low Voltage Converter

DESCRIPTION

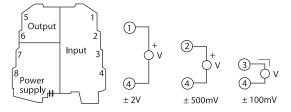
The DSCP65 low voltage converter provides a single channel of low-voltage input which is converted to a current or voltage output. It is designed for industrial-standard voltage or current signals. Input/output range, filter, fault indication, and other functions may be configured by dip-switch. Power can be applied directly to the converter's terminals or through a DIN-rail-mounted bus connector accessory, eliminating the need to wire power to each individual converter.



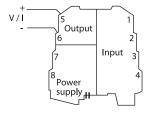
Power Supply



Input



Output



FEATURES

- Input Voltage: 25mV to 2VDC in 15 Settable Steps
- Output Voltage: 0-5VDC, 0-10VDC, 1-5VDC, 2-10VDC
- Output Current: 0-20mA, 4-20mA, 20mA-0, 20-4mA
- 1500Vrms Galvanic Isolation, 3-way
- 19.2-30VDC Power
- Spring-cage Clamp Connection
- 14-bit Resolution
- Better than ±0.1% Accuracy
- · Configuration by Dip-switch
- Compact 6.2mm DIN Housing
- CE Compliant

BENEFITS

- · High Efficiency and Performance
- · Reduced Power Loss During Conversion

APPLICATIONS

- · Data Acquisition
- Test and Measurement
- · Control Systems

DSCP65 Electrical Connections



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

Specifications Typical** at I _A = +25°C and +24VDC Loop Power			
Module	DSCP65		
Input (selectable) Voltage (Terminals 3 and 4) Voltage (Terminals 2 and 4) Voltage (Terminals 1 and 4) Maximum Input Voltage	25, 50, 60, 75, 80, or 100mV (Input R = 50kΩ) 120, 150, 200, 250, 300, 400, or 500mV (Input R = 250kΩ) 1000 or 2000mV (Input R = 1MΩ) ±50VDC		
Accuracy Thermal Drift A/D Conversion Processing Response Time, 90% Span (selectable) CMRR Isolation Dip-switch Configuration Status Indicators (LED)	±0.1% (max) <120ppm/°K 14-bit Floating Point 32-bit <23ms (without filter), <51ms (with filter) >160dB 1500Vrms (1 minute), 3-way Sets Input and Output Ranges, Filter and Faults Internal Fault, Configuration Error, Connection Fault		
Output (selectable) Current Current Output Maximum Fault Output Voltage Voltage Output Maximum	0-20mA, 4-20mA, 20mA-0 or 20-4mA Load Resistance: 500Ω (max) 25mA 102.5% or 105% of Full-scale Value in Case of Over-range 0-5VDC, 1-5VDC, 0-10VDC or 2-10VDC Load Resistance: 2kΩ (min) 12.5VDC		
Power Supply Power Consumption Hot Swapping	19.2-30VDC <600mW (22mA at 24VDC) Yes		
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		

Ordering Information

Model	Description
DSCP65	DC Low Voltage Converter

Accessories

Model	Description
DSCX-02	DIN-rail Expandable Power-bus Connector
DSCP70	Power Supply Connection Module

NOTES:

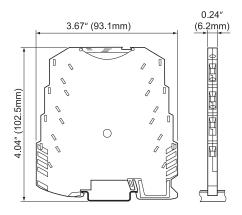
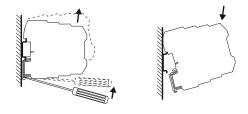
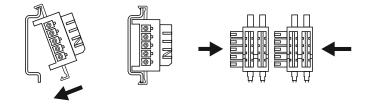


Figure 1: Dimensional Drawing

Inserting/Extracting Module on DIN Guide



Expandable Power-bus Connector



Spring-cage Clamp Connection

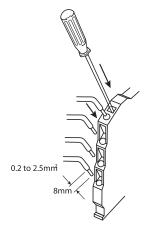


Figure 2: Module Installation

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