

DSCP63

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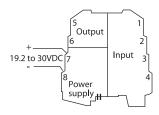
DC Voltage/Current Converter

DESCRIPTION

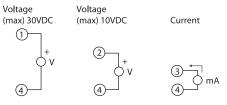
The DSCP63 voltage/current converter provides a single channel of voltage or current input which is converted to a voltage or current output. It is designed for industrial standard voltage or current signals. Input/output range, filter, fault indication, square root function, and other functions may 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.



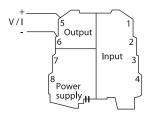
Power Supply



Input



Output



DSCP63 Electrical Connections

FEATURES

- Input Voltage: 0-5VDC, 0-10VDC, 0-15VDC, 0-30VDC, 1-5VDC, 2-10VDC
- Input Current: 0-20mA, 4-20mA
- 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 Energy Conversion
- · Helps to Improve Device Energy Utilization

APPLICATIONS

- Data Acquisition
- Test and Measurement
- · Control Systems



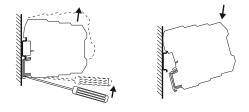
Specifications Typical* at T_n = +25°C and +24VDC Loop Power

* at T _A = +25°C and +24VDC Loop Power
DSCP63
0-15VDC, 0-30VDC (Input R = 325kΩ) 0-5VDC, 1-5VDC, 0-10VDC, 2-10VDC (Input R = 110kΩ) 0-20mA, 4-20mA (Input R = 35Ω)
±0.1% (max) <120ppm/°K 14-bit Floating Point 32-bit <35ms (without filter), <74ms (with filter) 1500Vrms (1 minute), 3-way Sets Input and Output Ranges, Filter and Faults Internal Fault, Configuration Error, Connection Fault
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)
19.2-30VDC <600mW (22mA at 24VDC) Yes
0.24" x 3.67" x 4.04" (6.2mm x 93.1mm x 102.5mm)
Terminal Housing for Mounting on 35mm DIN 46277
Spring-cage Clamp
1.8 ounces (50g)
-20°C to +65°C -40°C to +85°C 0 to 90%, Noncondensing IP20 EN61000-6-4 EN61000-6-2

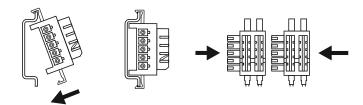
3.67" (93.1mm) (6.2mm) (6.2mm) (0.24"

Figure 1: Dimensional Drawing

Inserting/Extracting Module on DIN Guide



Expandable Power-bus Connector



Ordering Information

Model	Description
DSCP63	DC Voltage/Current Converter

Accessories

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

NOTES:

Spring-cage Clamp Connection

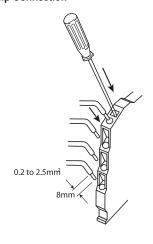


Figure 2: Module Installation

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