

DSCP65

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DC Low Voltage Converter

Description

Each 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.

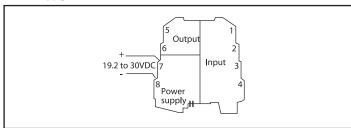


Features

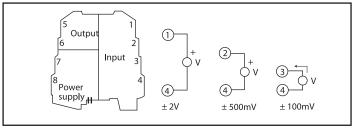
- Input Voltage: 25mV to 2VDC in 15 Settable Steps
- Output Voltage: 0 to 5, 1 to 5, 0 to 10, 2 to 10VDC
- Output Current: 0 to 20, 4 to 20, 20 to 0, 20 to 4mA
- 1500Vrms Galvanic Isolation, 3-Way
- 19.2 to 30VDC Power
- Spring Cage Clamp Connection
- 14-Bit Resolution
- Better than ±0.1% Accuracy
-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

Electrical Connections

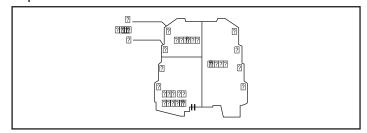
Power supply



Input



Output



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

DSCP65
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
±0.1% (max) <120ppm/°K 14-bit Floating point 32-bit <23ms (without filter), <51ms (with filter) \$60dB 1500Vrms (1 minute), 3-Way Sets input and output ranges, filter and faults Internal fault, configuration error, connection fault
0 to 20, 4 to 20, 20 to 0 or 20 to 4mA Load resistance: 500Ω (max) 25mA 102.5% or 105% of full-scale value in case of over-range 0 to 5, 1 to 5, 0 to 10 or 2 to 10VDC Load resistance: $2k\Omega$ (min) 12.5VDC
19.2 to 30VDC 6 00mW (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
1.6 ounces (46g)
-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

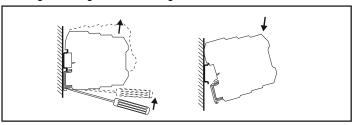
Accessories

Model	Description
DSCX-02	DIN Rail Expandable Power-Bus Connector
DSCP70	Power Supply Connection Module

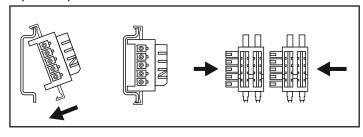
NOTES

Installation

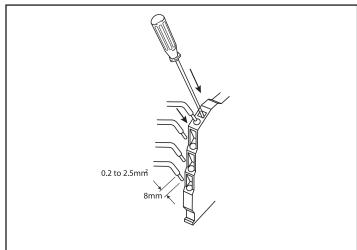
Inserting/extracting module on DIN guide



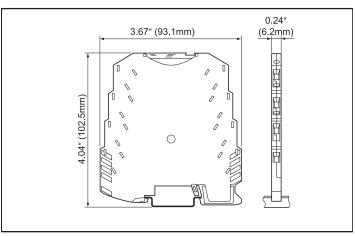
Expandable power-bus connector



Spring cage clamp connection



Dimensional Drawing



DSCP

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