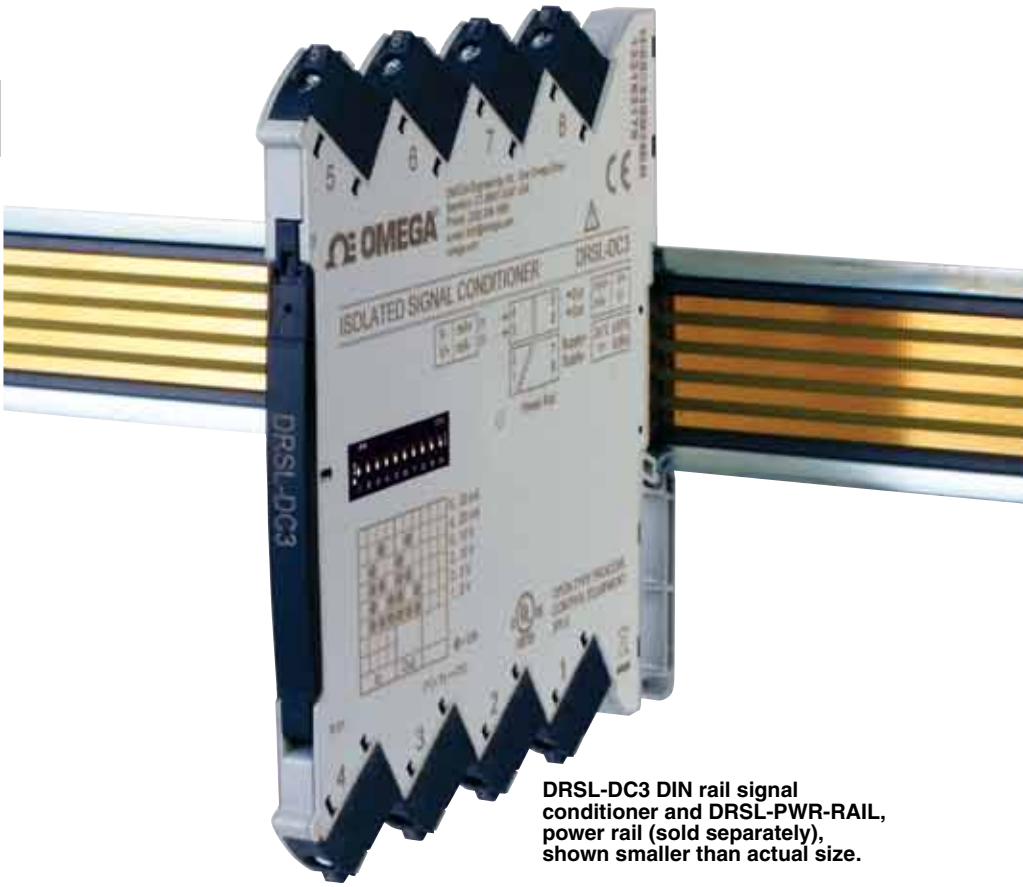
NEW

Isolated DIN Rail Signal Conditioner

DRSL-DC3

1 YEAR WARRANTY

- **Isolation and Conversion of Process Voltage or Current Signals**
- **Slimline Housing— Only 6 mm (0.24") Wide**
- **Multiple Signal Ranges (DIP-Switch Selectable)**
- **High Accuracy, <0.2% of Span**
- **Fast Response Time <7 ms**



DRSL-DC3 DIN rail signal conditioner and DRSL-PWR-RAIL, power rail (sold separately), shown smaller than actual size.

The DRSL-DC3 isolated DIN rail signal conditioner provides a competitive choice in terms of both price and technology for galvanic isolation of process voltage or current signals to SCADA systems or PLC equipment. The DRSL-DC3 can be used for signal conversion of standard process voltage or current signals. The unit offers isolation between input, output and supply, provides surge suppression and protects control systems from transients and noise.

The DRSL-DC3 also eliminates ground loops and can be used for measuring floating signals. Low power consumption facilitates DIN rail mounting without the need for any air gap. Factory calibrated measurement ranges are easily configured via DIP switches. The unit operates over a wide temperature range from -25 to 70°C (-13 to 158°F).

SPECIFICATIONS

INPUT

Current Input

Measurement Range: 0 to 20.5 mA
Functional Range: 0 to 23 mA
Programmable Measurement Ranges: 0 to 20 mA and 4 to 20 mA
Input Voltage Drop: < 1.5V

Voltage Input

Measurement Range: 0 to 10.25V
Functional Range: 0 to 11.5V/ 0 to 5.75V
Programmable Measurement Ranges: 0 to 5V, 1 to 5V, 0 to 10V, 2 to 10V
Input Resistance: ≥500 kΩ

OUTPUT

Current Output

Signal Range: 0 to 20.5 mA (span)
Programmable Signal Ranges: 0 to 20 mA and 4 to 20 mA
Load: 23 mA/600 Ω max
Load Stability: ≤0.01% of span/ 100 Ω
Current Limit: ≤28 mA

Voltage Output

Signal Range: 0 to 10V
Programmable Signal Ranges: 0 to 10, 2 to 10, 0 to 5 and 1 to 5V
Load: >10 kΩ min

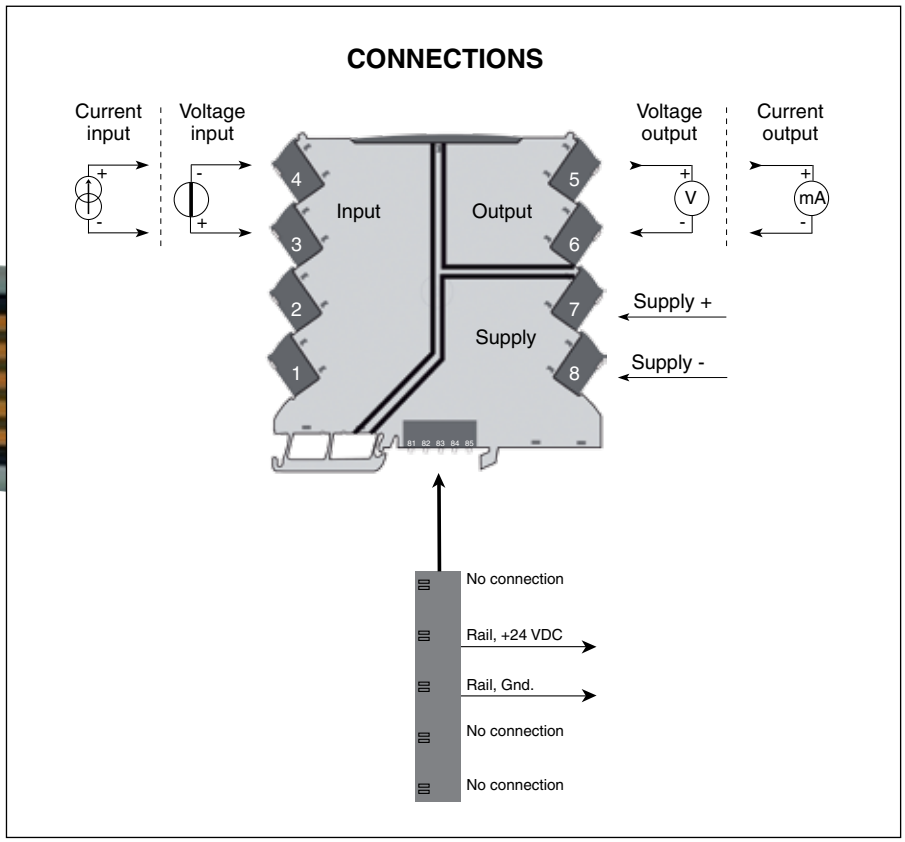
GENERAL

Supply Voltage (via Power Rail or Connectors): 16.8 to 31.2 Vdc
Power Consumption: 0.8 W max
Internal Consumption: 0.4 W typical/ 0.65 W max
Isolation: Input/Output/Supply
Isolation Voltage (Test): 2.5 kVac
Isolation Voltage (Working): 300 Vac
MTBF: >249 years, according to IEC 61709 (SN29500)
Signal/Noise Ratio: >60 dB
Response Time (0 to 90%, 100 to 10%): <7 ms
Span: Corresponds to the presently selected DIP switch output range
Accuracy: <±0.2% of span
Temperature Coefficient: <±0.015% of span/°C
EMC Immunity Influence: <±0.5% of span

Extended EMC Immunity

NAMUR NE 21, A Criterion, Burst: <±1% of span

DRSL-DC3 and DRSL-PWR-RAIL shown smaller than actual size.



ENVIRONMENTAL
Operating Temperature: -25 to 70°C (-13 to 158°F)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Calibration Temperature: 20 to 28°C (68 to 82°F)
Relative Humidity: 0 to 95% RH non-condensing
Protection Degree: IP20
Installation Area: Pollution degree 2 and measurement/overvoltage category II

MECHANICAL
Dimensions: 113 H x 6.1 W x 115 mm D (4.4 x 0.24 x 4.5")
Weight: 70 g (0.15 lb) approx
DIN Rail Type: DIN EN 60715 - 35 mm
Wire Size: 0.13 x 2.5 mm²/AWG 26 to 12 stranded wire
Screw Terminal Torque: 0.5 Nm

OMEGACARE℠ Extended Warranty Program

OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equivalent loaners.

To Order

Model No.	Description
DRSL-DC3	Isolated DIN rail signal conditioner

Accessories

Model No.	Description
DRSL-PWR-RAIL	Power rail (with cover and two end covers, one right hand and one left hand), 1 m (3.3') length
DRSL-PCU	Power connector unit, 24 Vdc/2.5 A output to power rail
DRSL-MOD-STOP	Module stop (screwed onto power rail to support and hold mounted devices)

***Ordering Example: DRSL-DC3** isolated DIN rail signal conditioner, **DRSL-PWR-RAIL** power rail, **DRSL-PCU** power connector unit, **DRSL-MOD-STOP** module stop and **OCW-1,** OMEGACARE℠ extends standard 1-year warranty to a total of 2 years.*