

Datasheet

RS PRO Signal Converter

Stock No: 192-3399

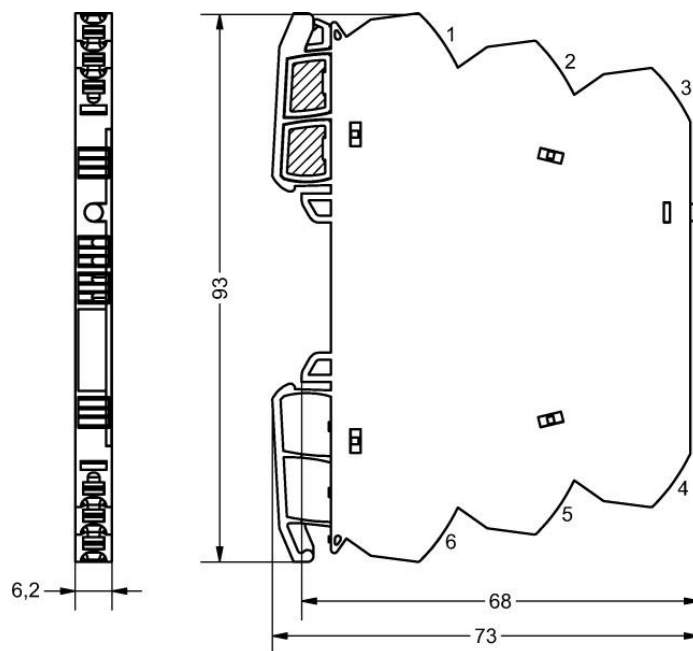
LCIS analogue/ analogue converter



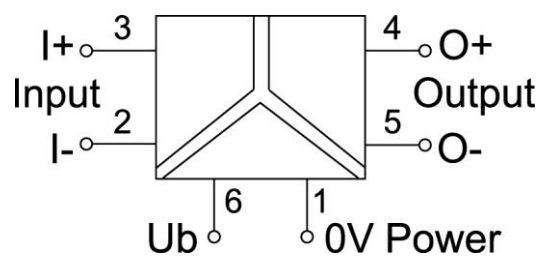
Specifications

Type	LCIS-WAA-1538-62-PI
Input	4–20 mA
Output	4–20 mA
Insulation	2.5 kV, 3-way isolation
Mounting Type	DIN rail mountable TS35 (EN 60715)
Connection type	Push-In
IP Rating	IP20
Housing Material	PA 6.6 (UL 94 V-0, NFF I2, F2)

Dimensions



PIN assignment



Technical Data

Input	
Input signal	4–20 mA
Galvanic isolation I/O	3-way isolation
Step response (10–90%)	6 ms
Zero /Span	Production comparison
Input resistance	100 Ω

Output	
Output signal	4–20 mA
Output voltage limit	min 0 V max 10.8 V for all output ranges with nominal upper limit 10 V
Output current limit	min. 0 mA for all output ranges with nominal lower limit 0 mA min. 3.6 mA or all output ranges 4 – 20 mA max. 21.6 mA for all output ranges with nominal upper limit 20 mA
Max. load impedance at I-output	500 Ω
Residual ripple	<20 mV _{eff}

Operating data	
Accuracy	0.1 % FSR @ 23 °C
Linearity error	0.05 % FSR
Rise time (10 - 90%)	6 ms
Build-up time (Accuracy 1%)	17 ms
Critical frequency	30 Hz @ 3 dB
Temperature coefficient	<150 ppm / K FSR

General	
Rated voltage U _N	AC/DC 24 V
Operation voltage range	AC 19.2–26.4 V / DC 18.0–31.2 V
Status indication	LED green
Input/output protection	Overvoltage, current input with PTC fuse, short circuit-proof output
Rise time (10 - 90%)	6 ms
Insulation voltage input / output	2.5 kV _{eff}
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	RAL 7012 basalt grey
Mounting	DIN rail mountable TS35 (EN 60715)
Protection class	IP20
Installation position	any
Connection type	Push-In single wire 0.25 mm ² –2.5 mm ² / AWG 20–14 fine stranded wire with ferrule 0.25 mm ² –1.5 mm ² / AWG 20–16
Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +80 °C
Dimensions (w × h × d)	6.2×93×73 mm
Weight	0.029 kg/piece
PU	1 piece
Approvals	cULus (E135145) DNV GL
Standards	EN 60947-5-1

Failure Rate Prediction (MTBF)	
Standards	Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion: EN/IEC 61709 Failure Rates of Components – Expected values: SN 29500
Failure rate at +45 °C	504 fit
Failure rate at +45 °C	1983891 h
	1 fit equals one failure per 10 ⁹ component hours The indicated temperature is the mean component ambient temperature.
Comments	The results are valid under following conditions: Automotive environment or industrial areas without extreme dust levels and harmful substances Continuous operation 8760 h per year