ENGLISH

Datasheet

RS PRO Signal Converter

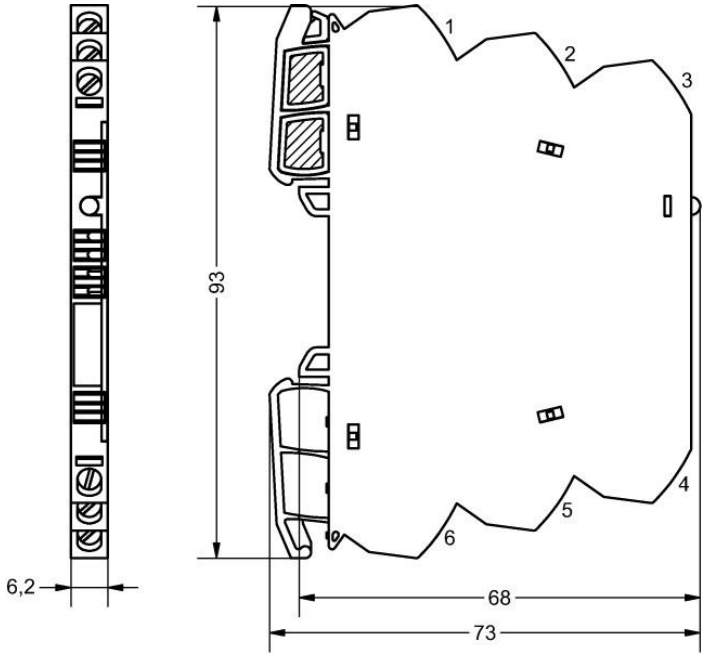
Stock No: **192-3395**

LCIS analogue/ analogue converter

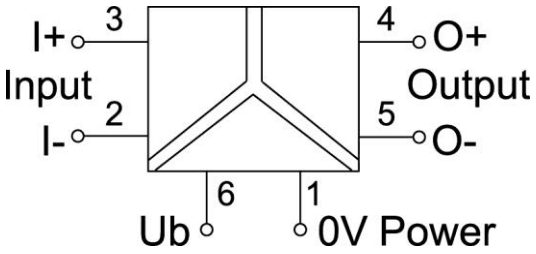
Specifications

Type	LCIS-WAA-0538-62-S
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	Screwed terminal
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
Load deviation	at U-output max. 5 mV @ 2 kΩ
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	Screwed terminal 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