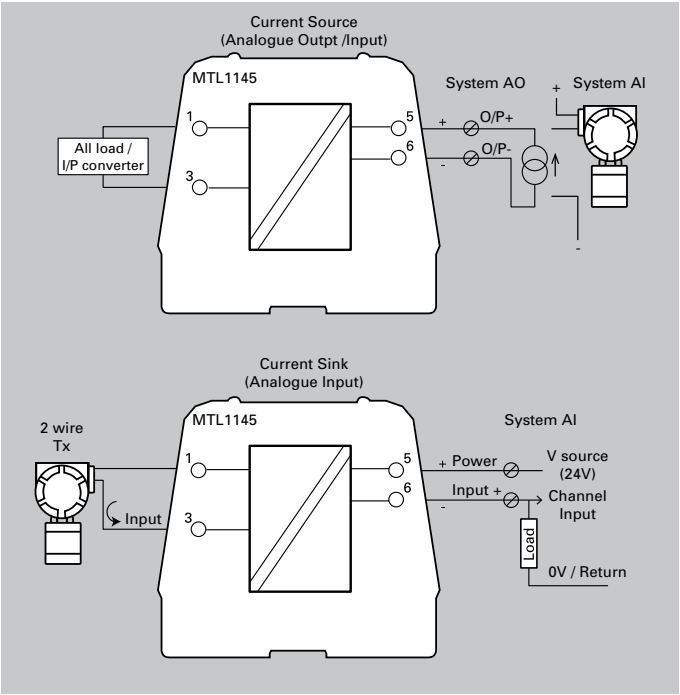
MTL1145 loop powered current repeater

1 channel for 4-20mA analogue outputs/inputs

The **MTL1145** is a single channel isolator which accepts a 4-20mA output source, isolates and repeats the signal. The repeated signal is loop powered from the original signal source. (Source mode). Alternatively a loop powered transmitter may be powered via the isolator from a 2 wire system input. (Sink mode)



Terminals	Current Source Mode	Current Sink Mode
1	Output +	Sink input +
3	Output -	Sink return
5	Current input +	Sink output +
6	Current input -	Sink output -

SPECIFICATION See also common specification	
Number of channels	One with fully floating output
Location of equipment	Safe area
Input signal	0-22mA
Output signal	0-22mA
Output voltage available	Input voltage – 7.5V max
Over-range	>110%
Response time	5mS
Transfer Accuracy at 20 °C	±50µA (100-600Ω load) source mode, ±150µA sink mode
Temperature drift	<0.01% /°C
Power supply voltage	10V to 32V DC
Maximum power dissipation within unit	<0.16W
Isolation	250V ac or dc functional isolation between power, field and system circuits. (Tested to 1100Vac)

Powering Business Worldwide

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