

WaveSeries MPI-Opto

High Speed Optocoupler

NEW



The MPI-Opto offers isolation and signal level conversion for discrete signals at frequencies up to 50KHz.

It also provides 2 isolated outputs making it ideal for driving local displays and a PLC or DCS simultaneously. The input can be 5Vdc or 12-24Vdc while the outputs are rated 12-28Vdc @ 50mA.

The input of the MPI-Opto can be provided by a proximity switch, photoelectric sensor or turbine flowmeter and can be either sinking or sourcing. Each output channel provides inverted and non-inverted signals. Applications include NPN-PNP conversion, signal inverter, level conversion, signal splitter and more.

- Up to 50kHz switching frequency
- 1 input and 2 isolated outputs
- 5V and 12-28V inputs
- Can be used with sinking or sourcing sensors
- The innovative Wavebox housing is compact and uses plug-and-socket connections
- **CSA Class 1 Division 2 certified**

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Mexico

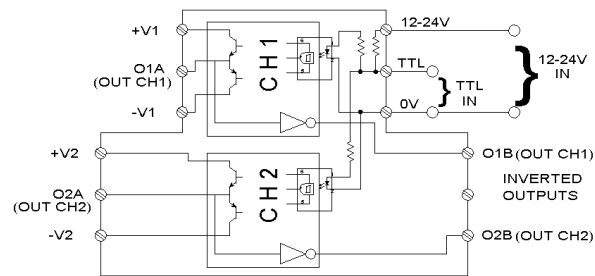
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MPI-Opto

Solid State Relay

Schematic diagram

- dual input; 5V or 12-28V
- 2 isolated outputs
- sinking or sourcing outputs
- up to 50 kHz switching frequency
- inverting and non-inverting outputs
- 3000Vac RMS isolation
- compact; just 18mm wide
- mounts on 35mm DIN rail
- **CSA approved, Class 1 Division 2 groups A, B, C, D; temperature code T4A**
- CE marked



OUTPUTS: SINK OR SOURCE 50mA MAX.

Rated data

Input	
On-state voltage	TTL input
	12-24V input
Off-state voltage	TTL input
	12-24Vdc input
Current	@5V
	@12Vdc
	@24Vdc
Output	
Voltage	
Current	
Low-state voltage drop	
High state voltage supply	
Max. switching frequency	
General	
Isolation	input-output
	output channel-to-channel
Temperature	operating
	storage
Wire size	
Dimensions in mm	width
	length
	height on rail TS32
	height on rail TS35 x 7.5

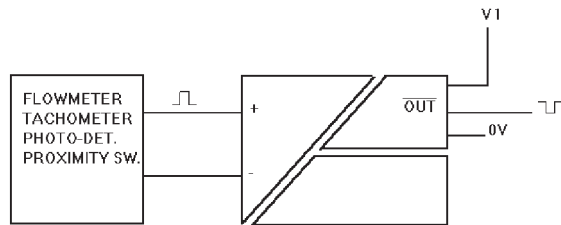
3.2-5Vdc
10-28Vdc
0-0.8Vdc
0-3Vdc
4mA on-state
4mA on-state
8mA on-state
12-28Vdc
50mA max. per output (sink or source)
<1V
Vs - 1V
50kHz
3000Vac RMS
3000Vac RMS
0°C to 55°C
-20°C to + 70°C
22-12AWG
17.7
90.0
n/a
105.2

Ordering data

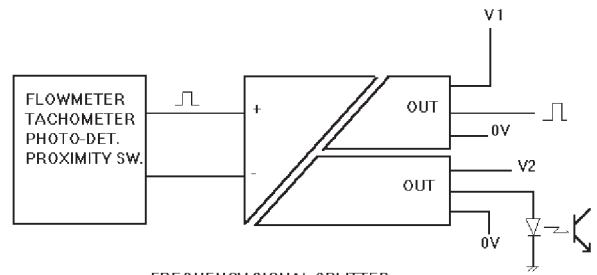
WavePak MPI-Opto

9916080000

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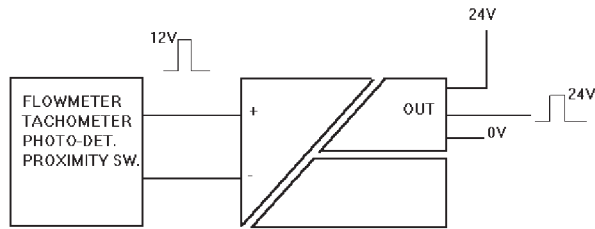


FREQUENCY SIGNAL INVERTER

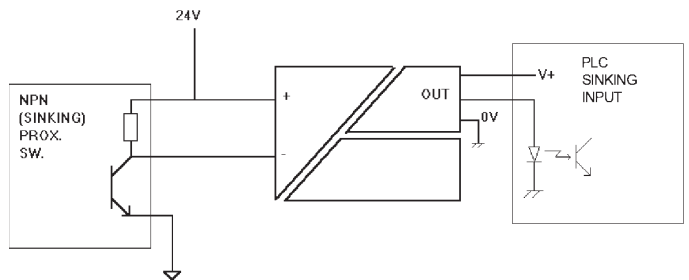


FREQUENCY SIGNAL SPLITTER

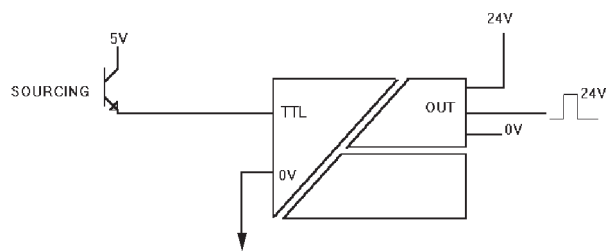
If V1 is same supply as V2 there is no isolation between output signals
If V2 is a separate supply from V1 the output signals are isolated from each other



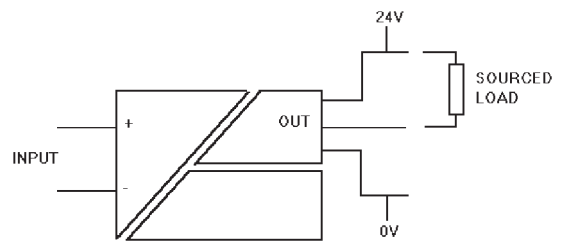
LEVEL CONVERSION



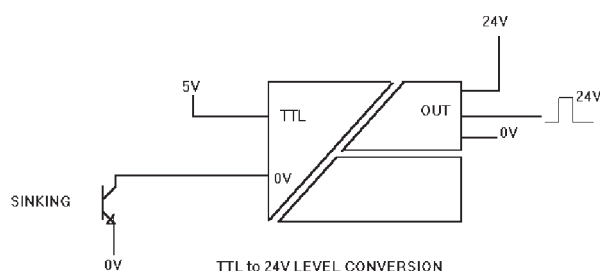
NPN-PNP CONVERSION



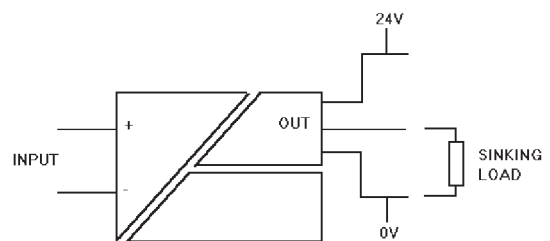
TTL TO 24V CONVERSION



SINKING OUTPUT



TTL to 24V LEVEL CONVERSION



SOURCING OUTPUT