NEW

WaveSeries MPI-Opto
High Speed Optocoupler

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
Solid State Relay

- 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

### Rated data

**Input**
- On-state voltage: 3.2-5Vdc
- Off-state voltage: 12-24Vdc
- Current: 4mA on-state
- @5V: 4mA on-state
- @12Vdc: 8mA on-state

**Output**
- Voltage: 12-28Vdc
- current: 50mA max. per output (sink or source)
- Low-state voltage drop: <=1V
- High state voltage supply: 5V - 1V

**General**
- Isolation: 3000Vac RMS
- Temperature: 0°C to 55°C
- Wire size: 22-12AWG
- Dimensions in mm: Width 17.7, Length 90.0, Height on rail TS32 105.2, Height on rail TS35 x 7.5

### Ordering data

WavePak MPI-Opto

9916080000

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Schematic diagram
FLOWMETER TACHOMETER PHOTO-DET. PROXIMITY SW.

FREQUENCY SIGNAL INVERTER

FLOWMETER TACHOMETER PHOTO-DET. PROXIMITY SW.

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

FLOWMETER TACHOMETER PHOTO-DET. PROXIMITY SW.

LEVEL CONVERSION

FLOWMETER TACHOMETER PHOTO-DET. PROXIMITY SW.

NPN-PNP CONVERSION

SOURCING

TTL TO 24V CONVERSION

SINKING LOAD

SINKING OUTPUT

SINKING

TTL TO 24V LEVEL CONVERSION

SOURCING LOAD

SOURCING OUTPUT