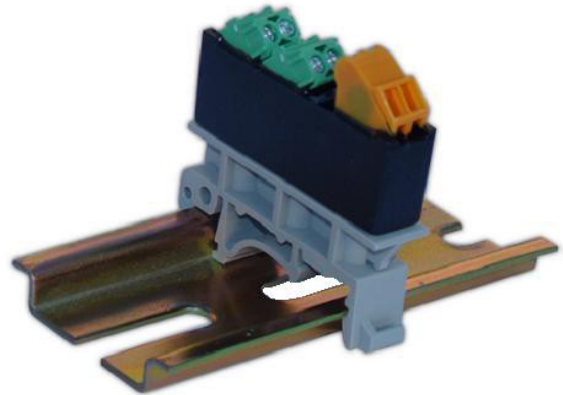


FEATURES

- TWO WIRE INPUT, TWO WIRE OUTPUTS
- LARGE INPUT VOLTAGE RANGE 5-40 vdc
- REVERSE POLARITY PROTECTED TO 100 VDC
- INPUT LIMITS THE CURRENT TO 10 mA, NO EXTERNAL RESISTOR IS NEEDED
- LOW POWER, AS LOW AS 50 mW FROM THE INPUT, BUT CAN SWITCH UP TO 24 W AT EACH OUTPUT
- BOTH OUTPUTS CAN SWITCH EITHER AC OR DC CURRENT
- PULSE FREQUENCY FROM DC TO 1200 Hz
- 35 mm DIN RAIL MOUNT
- CAN BE USED ALSO AS A DUAL OUTPUT SOLID STATE RELAY
- ISOLATION VOLTAGE > 1000 VDC
- ISOLATION RESISTANCE > 100 Mohm @ 500 VDC
- LxWxH = 43x10x42 mm (1.68"x0.4"x1.66")
- WEIGHT = 14.5 g (0.51 oz.)

APPLICATIONS

- FLOW METERS PULSE ISOLATION
- INDUSTRIAL CONTROL
- METERING PUMPS
- SCADA
- IRRIGATION



1. DESCRIPTION

GPI12 is a low power isolator for digital signals (ON / OFF) from DC to pulses with frequency over 1200 Hz. It has two identical isolated outputs and is designed to work as a pulse splitter. It can also be used as a solid state relay with dual output for up to 24 W load.

The input limits the current though GPI12 to 10 mA, so no external limiting resistor is needed.

The outputs have no polarity and can equally switch DC or AC load.

GPI12 has high input voltage range, low consumption from the source and very low output resistance (when ON) at its outputs.

With its DIN rail mounting, very small size, slim design, high isolation and functionality it is an excellent choice for isolating and splitting pulses from flow meters and any other sources, controlling remote DC or AC loads and many other applications.

2. ABSOLUTE MAXIMUM RATINGS *

Operating temperature	-20 °C to +60 °C
Input voltage	40 V DC
Reverse input voltage	100 V DC
Output current, each output	400 mA DC/AC
Output voltage, each output	60 V DC, 40V AC

* **NOTE: Stresses above those ratings may cause permanent damage to the device.**

3. CHARACTERISTICS

Parameter	Conditions	Min	Typical	Max	Units
Input					
Input voltage	-20 °C to +60 °C	5		36	V DC
Input frequency				1200	Hz
Current from the source			10		mA
Each Output					
Voltage, when OFF	-20 °C to +60 °C			60	V DC
Output ON resistance	-20 °C to +60 °C, 400 mA load		1		ohm
Output OFF leakage	-20 °C to +60 °C, 60 V DC		3		nA
Isolation voltage	Input to output, output to output	1000			VDC
Isolation resistance	Input to output, output to output, @ 500 VDC	100			Mohm

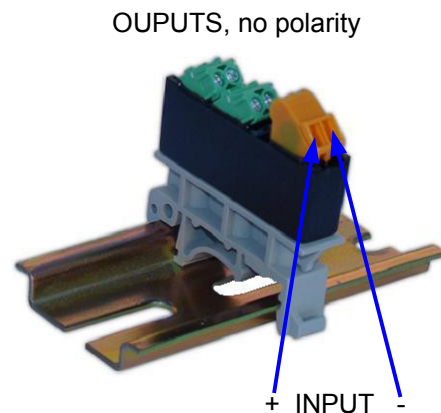
4. APPLICATION

4.1. MECHANICAL

Mounting Gpi12 on the DIN rail requires an area of 43 x 10 mm (1.68" x 0.4").

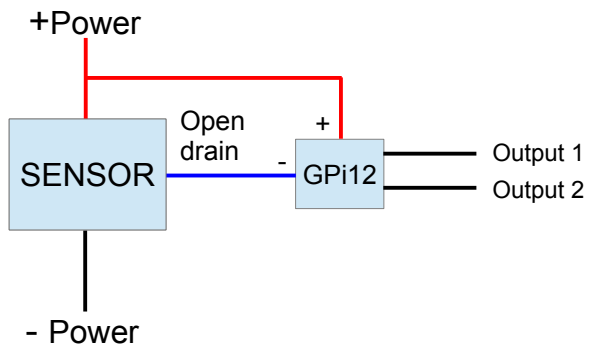
4.2. ELECTRICAL

The input is 2 wire and uses power from the pulse / signal source. It has reverse polarity protection. The outputs have no polarity and can equally switch DC or AC current.

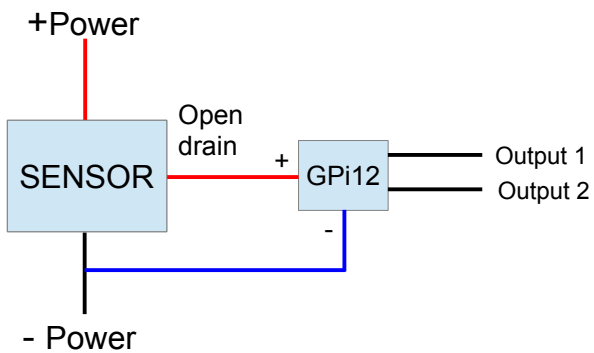


4.2.1. WIRING

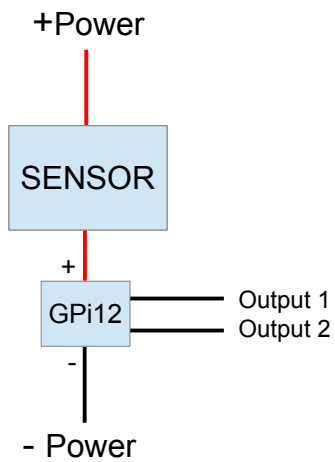
4.2.1.1. NPN OPEN DRAIN / COLLECTOR



4.2.1.2. PNP OPEN DRAIN / COLLECTOR



4.2.1.3. REED SWITCH, DRY CONTACT





5. ORDERING

For ordering please use the G Instruments part number 30702.



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