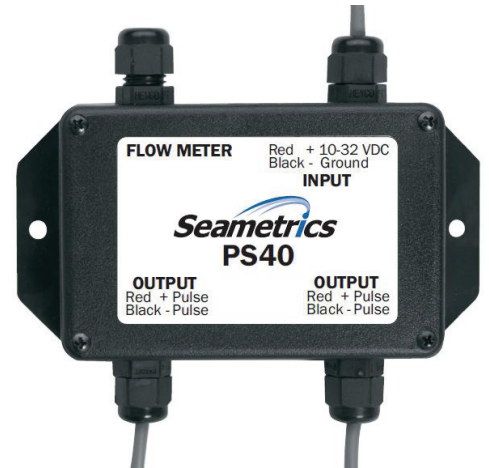


Signal Pulse Splitter



The PS40 is a low-voltage device that allows a flow sensor to drive multiple (up to four) pulse-responsive devices, such as solenoid-driven chemical metering pumps, counter timers, or remote totalizers. It requires an external DC power supply for operation and can provide power to a single low power flow sensor. It can also be used with a dry contact sensor, such as a reed switch meter.



FEATURES

- Rugged ABS plastic housing
- Optoisolated Transistor and relay outputs

APPLICATIONS

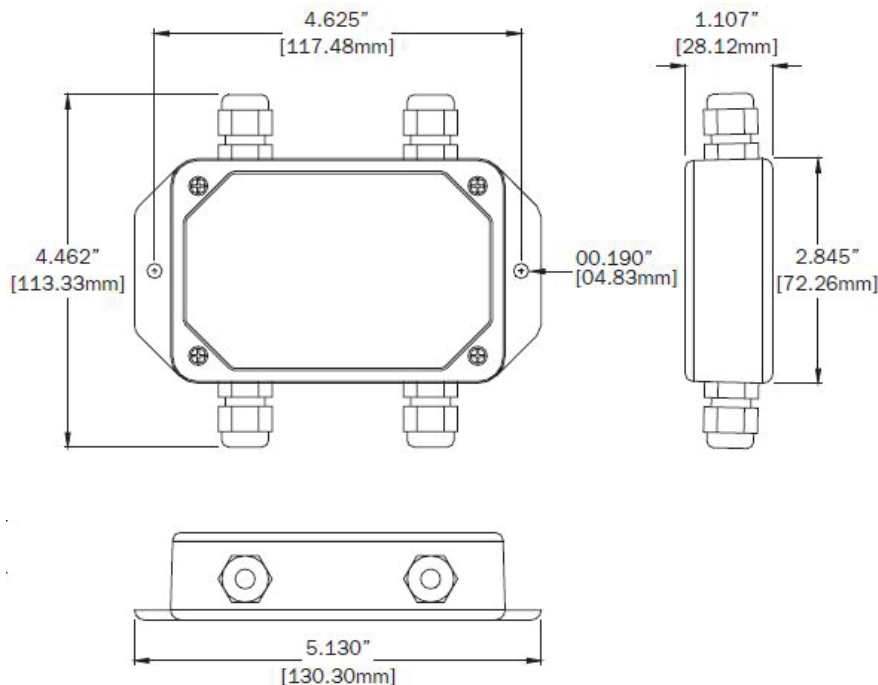
- Cooling tower/boiler water treatment
- Pacing chemical metering pumps
- Driving multiple pumps, counter timers, remote totalizers

SPECIFICATIONS

Power	10 - 32 Vdc
Relay	Operational frequency = 50 Hz max Contacts = 250 mA max, 36 Vdc max, 3W max
Optoisolation	10 mA max @ 30 Vdc max
Outputs	Three open collector optoisolated, One Form C relay

*Specifications subject to change

DIMENSIONS



WALCHEM

IWAKI America Inc.

Signal Pulse Splitter



Connections:

Remove the PS40 cover to access the terminals. Follow the Connections diagram. Use the included nuts to secure the strain reliefs on the inside of the enclosure before connecting to the terminals.

Power:

A DC power supply of 10 to 32 Vdc is required. Connect the +V and -V terminals to the DC + and - as shown.

Sensor:

If using a two-wire meter, note which two of the three terminals are to be used. Either of the sensor wires can be connected to either of these two terminals. Three-wire sensors are polarity-sensitive and must be connected to the appropriate terminals by standard color code: red is +, black is -, and white is Signal.

Output:

Three of the outputs are transistor, the fourth is relay. The transistor outputs will operate almost all pulse-

responsive metering pumps and all controls, provided that the polarity is correct. The relay output is identified by its terminals marked NO (normally open), COM (common), and NC (normally closed). The relay output will operate essentially everything, including the very rare pump or control that will only work with dry contact.

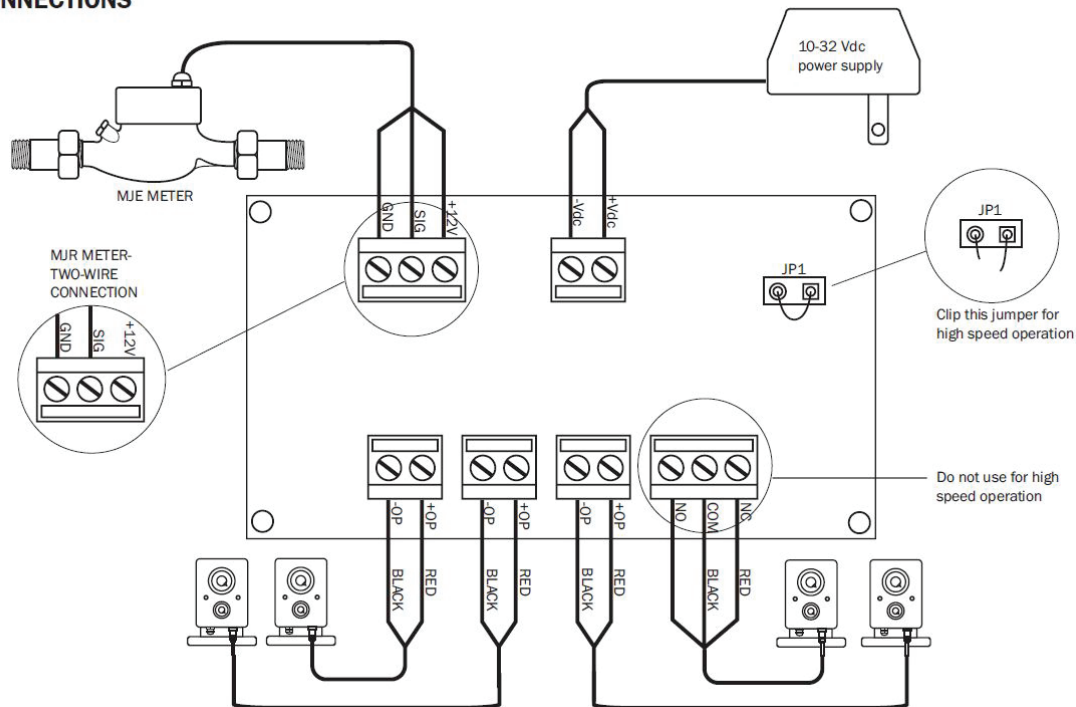


Caution: The relay output is designed for electronic controls only. Maximum current load is 250 mA.

High Speed Input:

It may be occasionally desirable to use the PS40 with a high-speed input, such as a WFP paddlewheel flow sensor. If the sensor will be putting out more than 50 pulses per second, it is necessary to disable the relay output, which cannot operate at such high speeds. To do this, clip the jumper marked JP1 (see diagram). Note that the relay output terminals cannot be used in this case.

CONNECTIONS



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