



PDFlo™ PDSR1/2

SPUR GEAR SENSOR



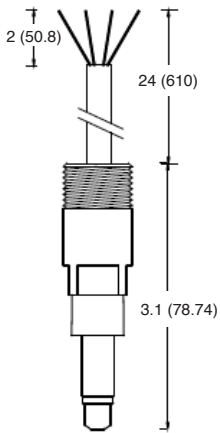
PDSR1 Single Hall Effect Sensor

Description

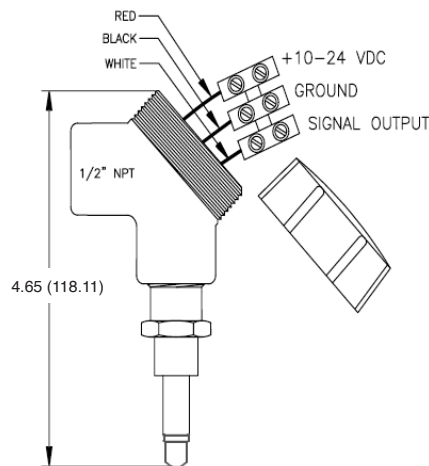
The PDFlo™ PDSR1 is a single hall effect sensor that is compatible with PDFlo Positive Displacement Flow Meters. This sensor detects the rotation of the flow meter's gears and emits a frequency signal proportional to flow. The output signal is a square wave pulse which has a duty cycle of approximately 50%. The PDSR1 has signal outputs that are protected with a self-resetting fuse. This fuse has a 50mA nominal trip point. When a trip occurs, turn off power to the sensor and remove output load to reset fuse. The PDSR1 is supplied with a sinking (non-powered) output or a sourcing (powered) frequency output.

Dimensions In (mm)

General Purpose
(PDSR1-___-GP)



Explosion Proof
(PDSR1-___-XP)



Specifications

Supply Voltage	+ 10 to 28 VDC
Supply Current	8mA@ 12VDC, 12mA @ 24 VDC
Duty Signal	50% ± 15%
Minimum Signal	0.5 Hz
Frequency Output	Flow dependent, up to 2,000 Hz
Driving Capacity	50mA Max resistive load
Output Impedance	~ 40 Ohm - analog switch and self-resetting fuse
Temperature Range	-40°F to 185°F (-40° to 85°C)
Classification	General Purpose: PDSR1-___-GP; Explosion Proof: PDSR1-___-XP

Note: Please Consult Factory for Special Requirements

Ordering Information

FLO-CORP MODEL NUMBER BUILDER

For Assistance Call (877) 356-5463

Model Number (1)	Output	Enclosure Rating
PDSR1-01-GP	Sinking	General Purpose
PDSR1-01-XP	Sinking	Explosion Proof
PDSR1-02-GP	Sourcing	General Purpose
PDSR1-02-XP	Sourcing	Explosion Proof

Ordering Notes:

(1) Select the best configuration based on your requirements

PDSR2 Dual Hall Effect Sensor

Description

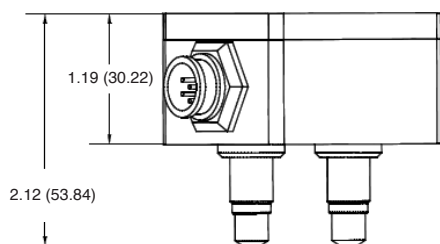
The PDFlo PDSR2 is a dual hall effect sensor that is compatible with PDFlo Positive Displacement Spur Gear Flow Meters. This microprocessor-based sensor can detect both uni- and bi-directional flow. The sensors' mode of operation is determined by an output selection switch located inside the housing. The PDSR2 detects the rotation of the flow meter's gears and emits a frequency signal proportional to flow. The output signal is a square wave pulse which has a duty cycle of approximately 50%. The signal outputs are protected with a self-resetting fuse. This fuse has a 50mA nominal trip point. When a trip occurs, turn off power to the sensor and remove output load to reset fuse. The PDSR2 is supplied with a sinking (non-powered) output or a sourcing (powered) frequency output.

Specifications

Supply Voltage	+ 10 to 27 VDC
Supply Current	18mA@ 12VDC, 25mA @ 24 VDC
Duty Signal	50% ± 15%
Minimum Signal	0.5 Hz
Frequency Output	Flow dependent, up to 2,000 Hz
Driving Capacity	50mA Max resistive load
Output Impedance	~ 40 Ohm - analog switch and self-resetting fuse
Temperature Range	-40°F to 185°F (-40° to 85°C)

Note: Please Consult Factory for Special Requirements

Dimensions In (mm)



Ordering Information

FLO-CORP MODEL NUMBER BUILDER

For Assistance Call (877) 356-5463

Model Number (1)	Output	Capacity Designator (GPM Liquid) (2)
PDSR2-01-00	Sinking	0.003-0.8
PDSR2-01-01	Sinking	0.01-2
PDSR2-01-02	Sinking	0.03-7
PDSR2-01-03	Sinking	0.05-20
PDSR2-01-04	Sinking	0.5-60
PDSR2-01-05	Sinking	1-120
PDSR2-02-00	Sourcing	0.003-0.8
PDSR2-02-01	Sourcing	0.01-2
PDSR2-02-02	Sourcing	0.03-7
PDSR2-02-03	Sourcing	0.05-20
PDSR2-02-04	Sourcing	0.5-60
PDSR2-02-05	Sourcing	1-120

Ordering Notes:

- (1) Select the best configuration based on your requirements
- (2) Capacity designator should depend on your flow meter requirements