

MODEL 599-24-5.0 SENSOR

999350

- Wheel Blast systems
- Steel shot/grit
- No moving parts
- 400 - 4000 lbs/min
- 180 - 1800 Kg/min
- 0-10 Vdc output signal
- 127 mm bore



The Model 599-24 5.0 Inductive Sensor is constructed on a 5" PVC pipe located below the media flow regulator and above the throwing wheel in a blast cleaning system. Connections are made by a convenient plug and cable (supplied).

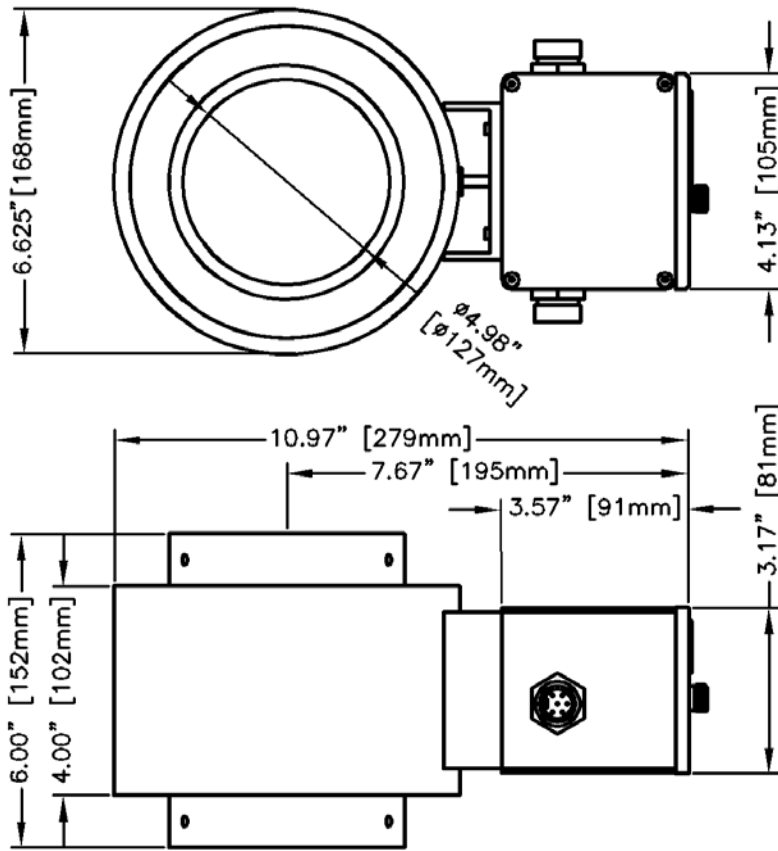
The sensor is placed in the system after the flow rate has been regulated. The sensor detects density of ferrous media and this signal is then scaled to display flow rate, providing media flow velocity is constant.

Note: The 599-24 sensor must be mounted over the non-metallic blast hose; otherwise, the abrasive will destroy the interior of the flow sensor.

The output signal 0-10 Vdc may be directed to your own display or to the MSD display with bar graph readout. The sensor may also be used in a hybrid application of MagnaValve (such as VLP-24 or LP-24), 599-24 Sensor and FC-24 Control. This would be desirable when the abrasive media is grit which would not be recommended for the 500-24 MagnaValves.

ELECTRONICS INCORPORATED

MODEL 599-24-5.0 SENSOR



Specifications

Size - ID:	4.98" / 127mm
Height:	6"
Weight:	4 lbs
Flow Inlet:	5" PVC
Flow Outlet:	5" PVC
Range:	400-4000 lbs/min
Power:	+24VDC ±2VDC @120mA
Output:	0-10VDC
Adjustments:	Zero, Span
Accuracy:	Contact factory for calibration assistance. The type and size of material as well as the placement of the sensor will affect calibration.
Placement:	The sensor should be placed so that nearby metal is not closer than 2 inch / 5cm otherwise an offset voltage will occur.

Cable : Use 6 conductor shielded wires 16 AWG gage or larger. Place cable in a separate conduit to avoid electrical noise interference.

LED1 not used

Sensor LED lights when sensor is functioning.

LED2 will serve as Enable when used with a Magna-Valve.

Power LED will blink if supply is out of spec.



ZERO (Factory set)

SPAN (Factory set)

Note: Orange and blue wires only used when sensor is used with a MagnaValve. See AN-178.

Note: this sensor is designed to fit over the outside of a non-metallic hose. The material in the bore of the sensor will not withstand the abrasion of metallic media. Contact the factory for other size sensors. The 599-24 sensor can also be used in closed loop applications normally performed by the 250-24 or 500-24 MagnaValves. This would be useful when the media is grit instead of shot. See application note AN-178 for more information.