# HEF Hall Effect Pickup

# Installation and Technical Data Guide

#### Description:

The HEF is a Hall Effect sensor which is compatible with the Aluminum, 303 Stainless Steel and 316 Stainless Steel body JV-CG and JV-KG series of flow meters. The 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%.

HEF 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 HEF sensor has two different output configurations: HEF-A or HEF-AA for a sinking output and HEF-B or HEF-BB for sourcing output.

Installation:

- Ensure that the flowmeter sensor cavity is free of debris prior to installing pickup
- Make sure the sensor mounting screws line up with the mounting holes. If they do not, remove and rotate the sensor 180°

# NOTE: WIRING SHOULD BE INSTALLED BY A QUALIFIED INSTRUMENTATION TECHNICIAN

## Electrical Connection for Pin Connector:

Pin Number	HEF-A / -AA	HEF-B / -BB
1	NC	NC
2	NC	NC
3	NC	NC
4	Output	Output
5	Ground	Ground
6	Supply	Supply

HEF sensors can be used wih all Aluminum, 303 Stainless Steel and 316 Stainless Steel body flow

JV-60CG & JV-60KG ONLY HEF-AA, HEF-BB

HEF-A, HEF-B

Part Number Configuration:

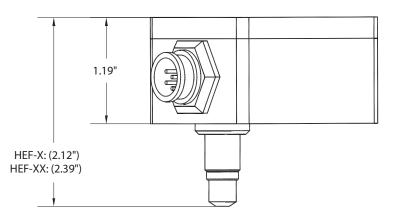
JV-CG 01, 10, 15, 20 & 30

JV-KG 12, 20 & 30

meters

### AW Wiring Color Code:

	Pin Number	Wire Color
Supply Voltage:	6	Red
Ground:	5	Black
Signal:	4	White



#### Pinout looking at male connector on sensor





# HEF Hall Effect Pickup

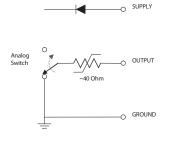
# Installation and Technical Data Guide

Rev. 07/2017

#### Technical Dat a:

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

#### HEF-A / -AA Sinking Output Circuit



- User may need to add external components to interface to displays or other instruments
- User must limit output voltage to Supply -1V
- Max current sinking capability: 50mA

#### HEF-B / -BB Sourcing Output Circuit

