DESCRIPTION

The Blancett Model B170112 magnetic pickup/preamplifier was designed to directly replace a standard pickup within a B1750 flow meter when signal amplification is required. The pickup is a combination of a standard Blancett magnetic pickup and a solid-state electronic preamplifier in a single stainless steel housing.

OPERATING PRINCIPLE

As fluid flows through the meter, the spur gears rotate at a speed proportional to the fluid velocity. As the gear's blade passes through the magnetic field induced by the pickup, a voltage pulse is generated. The voltage signal generated by the pulses becomes amplified within the pickup. The output signal generated from the pickup is now in the form of a square wave. The frequency of this signal is used to represent the flow rate of fluid passing through the flow meter.

DIMENSIONS

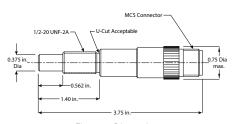


Figure 1: Dimensions

SPECIFICATIONS

Operating Frequency	310,000 Hz	
Temperature	–40250° F	
Range	(–40…121° C)	
Magnetization	475 ±25 gauss	
Supply Voltage	24V DC/20 mA	
Pulse Output	NPN Reverse polarity protected open collector (OC)	
Construction	Housing	303 Stainless steel, solid epoxy encapsulation MC5; micro-C,
	Connector	5-pin, gold plated contacts

INSTALLATION AND WIRING

The B170112 pickup is simply threaded into the hole (5/8 inch 18UNF) in the meter until the pickup bottoms out. Tighten the pickup finger tight. Do not over tighten.

Install the 5-pin connector and connect the wire ends of the cable using common wiring practices.

See Figure 2 for wiring specifications.

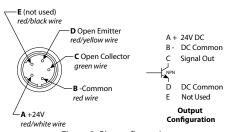


Figure 2: Pin configuration



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