## Digi-Pulse Magnetic and RF Pickups

Digi-Pulse pickups with digital output offer a low cost solution for interfacing directly to data acquisition systems. These pickups integrate a preamplifier/signal conditioner with the pickup housing and offer the advantages of excellent noise immunity and greater transmission capability. Input power supply requirements cover the most popular ranges for both commercial and industrial use.

The output signal of these pickups have a square pulse wave from, the frequency of the signal directly relates to the number of turbine blades, gear teeth, etc. that have been sensed by the pickup. These pulses, in turn, can be correlated to determine flow rate, RPM or velocity.

Models using modulated carrier (RF) and magnetic (inductive or variable reluctance) pickups with several pulse output options are available. Configurations can be customized to satisfy requirements including gauss strengths (except RF models), hermetic sealing, mounting threads, interconnection type, pickup shape/length and environmental considerations (e.g. explosion proof, intrinsically safe).



## Standard Features and Specifications

Type:

· Variable reluctance or RF type

Input Power 8 to 30 Vdc, 10 mA max. @ no load

Reverse polarity protected

Pulse Output Options:

Choices of:

- Open collector; maximum OFF voltage 30 Vdc maximum ON current 0.40 amps
- TTL/CMOS; fanout of 5 TTL/CMOS loads
- 0 to 10 vdc square wave (requires 15 to 30 Vdc input power)

Interconnection Type Options:

- (standard) 3 pin MIL-C-5015 type connector with gold plated pins; mates with MS3106-10SL-3S; other connectors available
- · pigtail with wires or cable
- NPT threaded body with wire or cable pigtail for explosion proof environments

- Physical Operating temperature: 40° to 185°F (-40° to 85°C)
- Features Storage temperature: 54° to 302°F (65 to 150°C)
  - Body material: 300 series stainless steel
  - MS style connector (mates with MS 3106-10SL-3P)
  - · Encapsulated: epoxy potting (hermetically sealed, welded construction optional)

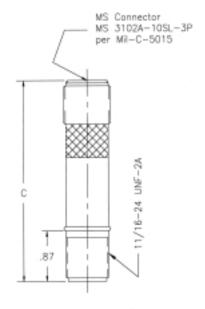
Approvals: CE complaint to EMC Directive 89/336/EEC for use in residential, commercial, light industrial and heavy industrial environments.

## Ordering Information

	Model No.	C (inches)	Pulse Output
Magnetic	DM013	3.07	Open Collector
	DM001	3.07	0 - 5 VDC
	DM012	3.07	0 - 10 VDC
RF	DR007	3.45	Open Collector
	DR001	3.45	0 - 5 VDC
	DR003	3.45	0 - 10 VDC

In addition to the above-specified pickups. Flowmetrics can make these pickups in other lengths, configurations, mounting thread as well as with options like pigtail lead, NPT thread for explosion proof applications, etc.

## **Dimensions:**



http://www.flowmetrics.com 800-356-6387