

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

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|-------------------------------|---|-------------------|---|
| Type: | <ul style="list-style-type: none"> • Variable reluctance or RF type | Physical Features | <ul style="list-style-type: none"> • Operating temperature: 40° to 185°F (-40° to 85°C) • 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) |
| Input Power | <ul style="list-style-type: none"> • 8 to 30 Vdc, 10 mA max. @ no load • Reverse polarity protected | Approvals: | <ul style="list-style-type: none"> • CE complaint to EMC Directive 89/336/EEC for use in residential, commercial, light industrial and heavy industrial environments. |
| Pulse Output Options: | Choices of: <ul style="list-style-type: none"> • 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: | <ul style="list-style-type: none"> • (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 | | |

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:

