

Intrinsically Safe Digi-Pulse Pickups

Our intrinsically safe models feature the same high quality construction and materials as our standard Digi-Pulse series. They are certified by CSA (with NRTL/C) and CENELEC for Class 1, Zone 0, IIC and Ex ia IIC T6 hazardous locations.

Features and Specifications

- Type: • Variable reluctance or RF type
- Input Power: • 13 to 28 Vdc, 35 mA max. @ 24 Vdc (Class i, Zone 0, IIC models)
• 7.5 to 28 Vdc, 10 mA @ ≤ 10 Vdc (Class I, Zone 0 IIA models)
• Reverse polarity protected
- Pulse Output • TTL/CMOS; fanout of 5 TTL/CMOS loads
• Open collector; maximum OFF voltage 30 Vdc
Maximum ON current 0.40 amps
- Interconnection Type Options: • (standard) 3 pin MIL-C-5015 type connector with gold plated pins; mates with MS3 106-10SL-3S; other connectors available
• Pigtail with wires or cable
• NPT threaded body with wire or cable pigtail for explosion proof environments

Physical Features

- Operating temperature: -40°F to 185°F (-40°C to 85°C)
- Storage temperature: -54°F to 302°F (-65°C to 150°C)
- Body material: 300 series stainless steel

- Encapsulated: epoxy potting (hermetically sealed, welded construction optional)

Entity parameters: Group IIA: $V_{max}/U_i = 30$ Vdc, $I_{max}/L_i = 190$ mA
 $C_i/C_o = 0.0$ uF, $L_i/L_o = .50$ mH

Group IIC: $V_{max}/U_i = 30$ Vdc, $I_{max}/L_i = 200$ mA
 $C_i/C_o = 0.0$ uF, $L_i/L_o = .50$ mH

Approvals:

- Intrinsic Safety to CSA (with NRTL/C) and CENELEC
- CE compliant to EMC Directive 89/336/EEC for use residential, commercial, light industrial and heavy industrial environments

Ordering Information

Table 1:
Hazardous Location: Class I, Zone 0 IIC, Class 1, Grp. A,B, C, D & Class II, Div 1, Grp. Class III and Coal Dust*

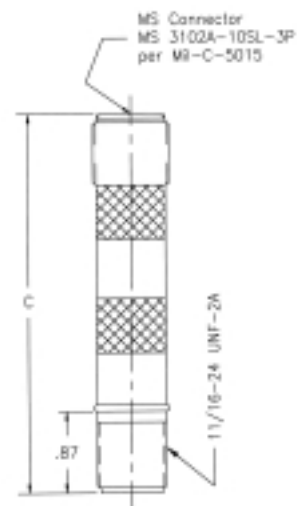
	Model No.	C (inches)	Pulse Output
Magnetic	DMX001-1	4.47	Open Collector
	DMX001-2	4.47	0 - 5 VDC
RF	DRX001-1	4.85	Open Collector
	DRX001-2	4.85	0 - 5 VDC



Table 2:
Hazardous Location: Class I, Zone 0 IIA, Class 1, Div. 1 Grp. D & Class II Div 1, Grp G, Class III and Coal Dust*

	Model No.	C (inches)	Pulse Output
Magnetic	DMX001-3	4.47	Open Collector
	DMX001-4	4.47	0 - 5 VDC
RF	DRX001-3	4.85	Open Collector
	DRX001-4	4.85	0 - 5 VDC

Dimensions:



* If equipped with NPT/pigtail lead combinations, above units are also suitable for Class II, Div. 1, Grp. E, F, G

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.