DYNALCO[®]



Dynalco Magnetic Pickups (Speed Sensors)

Dynalco *magnetic pickups* convert mechanical motion to ac voltage without mechanical linkage or external power. These self-contained transducers produce a magnetic field which, when altered by a moving ferrous object, generates an ac voltage. It assumes a material that is attracted to a magnet, such as the pole piece of a magnetic pickup.

When the pickup is mounted in proximity to the teeth of a gear on a rotating shaft, the generated voltage has a frequency in direct proportion to RPM. Although a gear is preferable, a proper signal may be derived from evenly spaced screws, holes, or flats on a rotating ferrous shaft, or by using Dynalco's exclusive *TT-100 Tach Tape*, especially designed for smooth ferrous or nonferrous shafts.



Features

- Passive (non-powered) and active (powered) models available.
- Variable Reluctance (VR) and Hall-Effect (HE) technologies available.
- Special bi-directional version available.
- Standard, high and ultra-high sensitivity.
- In many cases, a Dynalco magnetic pickup can be the power source for Dynalco self-powered devices.
- CSA Class 1, Div. 1; CSA Class 1, Div. 2; ATEX approvals.

Advantages

Dynalco pickups provide lower maintenance and operating costs because they have no switches to wear out, no rotating couplings to snap, no bulbs to burn out and do not require protection from dirty environments. They are compact, rugged sensors that are able to withstand wide temperature extremes and endure severe shock and vibration.

- Compact
- Rugged
- Durable

Industries

- ► Oil & Gas Exploration & Production
- Refining, Petrochemical & Chemical
- Process industries
- Power Generation
- Marine
- Water & Wastewater Management
- Pulp & Paper
- Factory Automation
- Rail
- Mining

Applications

- Diesel & Spark Ignited Engines
- Steam Turbines
- Turboexpanders
- Process Variable Measurement (4-20ma)
- Turbine Flow Meters
- Emissions Compliance
- Shaft / Conveyor Direction Sensing
- Rotating Machinery
- Speed Measurement & Control
- Position Sensing
- Pumps



Dynalco Magnetic Pickups Selection Guide

Active (Powered) Magnetic Pickups

Ordinary Area	
TTL Output Source Tracking	
M928 - 5/8-18 x 2.5" - 3 Pin	M928-24 - 5/8-18 x 2.5" - 3 Pin
Zero Speed Hall-Effect Sensors	
M806 - 5/8-18 x 4.5" - 3 Pin M951 - 5/8-18 x 4.5" - 3 Pin	M919-3-25 - 5/8-18 x 2.5" - 3 Pin M919-3-45 - 5/8-18 x 4.5" - 3 Pin

Hazardous Area

Zero Speed Hall-Effect Sensors

M920 Series - Multiple Thread Sized and Lengths

Passive (Variable Reluctance) Magnetic Pickups

Ordinary Area		
Standard Sensitivity (min. Speed > 500 RPM)		
M101 - 5/8-18 x 1.125" - 2 Pin M101-6 - 5/8-18 x 6" - 2 Pin M104-6 - 3/4-20 x 1.875"- 30" Leads M107 - 5/8-18 x 1.125" - 2 Pin - Power Source M131 - 5/8-18 x 4" - 2 Pin M131-6 - 5/8-18 x 6" - 2 Pin M137 - 3/8-24 x 1.250" - 6" Leads - Miniature, Gear <2" M143 - 10-32 x 0.875" - 14" Leads - Miniature, Gear <2"	M151 - 5/8-18 x 2.5" - 2 Pin M183-6-N - No Header, #20, 12" Leads M189 - 5/8-18 x 2.5" - 2 Pin M192 - 5/8-18 x 4" - 72" Leads M304 - 3/4-16 x 4" - 2 Pin M320 - M18 x 1.5 - 2 Pin M343 - 3/4-20 x 2" - 6 Pin - Dual output (Bi directional) M354 - M16 x 1.5 - 17" cable	M356 - 3/4-16 x 2" - 17" cable - Power Source M332 - 5/8-18 x 2.5" - 2 Pin M193 - 5/8-18 x 4" - 72" Leads
High Sensitivity (min. Speed > 300 RPM)		
M102 - 5/8-18 x 1.125" - 2 Pin M133 - 5/8-18 x 4" - 2 Pin M138 - 3/8-24 x 1.250" - 6" Leads - Miniature, Gear <2" M155 - 5/8-18 x 1.125" - 2 Pin - Low Drag, flow meter M168 - 5/8-18 x 1.75" - 12" Leads	M183 - 5/8-18 x 2.5" - 2 Pin M183-6 - 5/8-18 x 6" - 2 Pin M202-6 - 5/8-18 x 6" - 2 Pin M207 - 3/4-16 x 4" - 2 Pin - Power Source M233-6 - 5/8-18 x 6" - 2 Pin	M303 - 5/8-18 x 1.125" - 2 Pin M334 - 3/8-24 x 1.25" - 12' cable - Miniature, Gear <2"
Ultra-High Sensitivity (min. Speed < 300 RPM)		
M142 - 5/8-18 x 1.125" - 2 Pin M184 - 5/8-18 x 2.5" - 2 Pin M185 - 5/8-18 x 4" - 2 Pin	M203-6 - 5/8-18 x 6" - 2 Pin - Zener-Limited M204-6 - 5/8-18 x 6" - 2 Pin - Zener-Limited M205-6 - 5/8-18 x 6" - 2 Pin - Zener-Limited	M208 - 3/4-16 x 4" - 2 Pin - Power Source M281 - M16 x 1.5 - 2 Pin
► Hazardous Area		
Standard Sensitivity (min. Speed > 500 RPM)		
M104 - 3/4-20 x 1.875"- 30" Leads M134 - 5/8-18 x 1.125" - 2 Pin	M135 - 5/8-18 x 4″ - 2 Pin M139 - 3/4-20 x 2″ - 2 Pin	M201 - 5/8-18 x 1.125" - 2 Pin M231 - 5/8-18 x 4" - 2 Pin
High Sensitivity (min. Speed > 300 RPM)		
M140 - 3/4-20 x 1.875" -30" Leads M180 - 5/8-18 x 1.5" - 30" Leads M202 - 5/8-18 x 1.125" - 2 Pin	M219 - 5/8-18 x 3.5" - 15' Leads M233 - 5/8-18 x 4" - 2 Pin M318 - 3/4-20 x 3.5" - 30" Leads	M319 - 5/8-18 x 3.5"- 30" Leads M337 - 5/8-18 x 6" - 30" Leads
Ultra-High Sensitivity (min. Speed < 300 RPM)		
M203 - 5/8-18 x 4" - 2 Pin - Zener-Limited	M204 - 5/8-18 x 2.5" - 2 Pin - Zener-Limited	M205 - 5/8-18 x 4" - 2 Pin - Zener-Limited
 Speed Sensing Accessories C101 Magnetic Pickup/Speed Sensor 2-Pin Cable/ Connector Assembly C910 Magnetic Pickup/Speed Sensor 3-Pin Cable/ Connector Assembly 	C917 Magnetic Pickup/Speed Sensor 6-Pin Cable/ Connector Assembly PG-100 Pulser	TT-100 Tach Tape ISB-101 Intrinsically Safe Barrier (Hazardous Area)

