

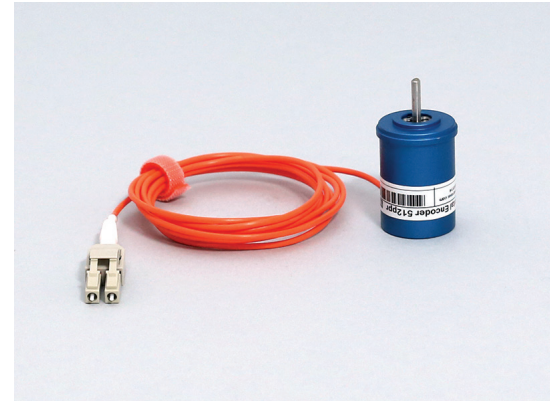
FIBER OPTIC INCREMENTAL ENCODER

MR341 Size 11 Mini Rotary Position Sensor

MR340 SERIES

The MR341 Mini Rotary Encoder is a Size 11, small form factor incremental encoder offering resolution to 512ppr. It is inter interchangeable with resolvers, synchros and conventional electronics-based encoders of the same size.

The MR341 Encoder is a 100% passive sensor which operates entirely in the optical domain. The sensor provides immunity to any electro-magnetic interferences such as lightning, radiation, magnetic fields and other harsh environment conditions. The innovative design provides 100% electrical isolation as well as immunity to high voltages - ideal for harsh environment applications such as feedback for welding robots, measuring anode position in smelters, and monitoring pantograph operation in electric rail applications.



U.S. Patent 7,196,320
Inherently Safe, Simple Mechanical Device
EPL Mb/Gb/Gc/Db/Dc

MR340-1 Controller

Inherently Safe Optical Radiation



Electrical Connections:
24 VDC Power, A/B Quadrature Output
Analog Outputs, RS485, SSI, USB

up to 2000 meters

← Safe Area | Hazardous Area →

MR341 Sensor

Simple Mechanical Device



Duplex LC, Multimode 62.5/125
Fiber Optic Cabling

Features

- 100% passive optical sensor
- Size 11 small form factor
- Up to 512ppr resolution
- Immune to EMI, RFI, lightning and ground loops
- Immune to magnetic fields
- Inherently Safe, Simple Mechanical Device
- Fiber optic link can extend up to 2000 meters
- DIN rail mount and OEM PCB controller available



Specifications

Measurement	
Resolution	256, 360, 512ppr
Maximum Speed	10,000 RPM, Mechanical Limit
Optical Interface	
Connector	LC Duplex
Fiber	Duplex 62.5/125µm Graded Index Fiber, 0.27NA, Type OM-1
Maximum Distance	Up to 1600 meters (5250 ft) with MR340 series Controller
Explosive Atmospheres	
Inherently Safe, Simple Mechanical Device	
EX Classifications	Inherently safe, simple mechanical device when used with a MR340 Controller
ATEX	EPL Mb/Gb/Gc/Db/Dc
IEC Ex	EPL Mb/Gb/Gc/Db/Dc
Environmental	
Temperature	-40°C to +80°C (-40°F to +176°F), 0-95% RH, Non-Condensing
Ingress Protection	IP40
Physical Attributes	
Dimensions	Ø25 mm x 50.9 mm (Ø0.98 x 2.00 inches)
Weight	55 g (1.94 oz)
Materials	Anodized aluminum housing, SS shaft, SS bearings

Specifications subject to change without notice

Ordering Info

MR341 - E 03 C1R5

Resolution

- C** 256ppr
- D** 360ppr
- E** 512ppr

Shaft Diameter

- 03** 3 mm

Termination Option

- C1R5** 1.5m Duplex LC pigtail
- C03** 3m Duplex LC pigtail

Quick Ship Configurations:

- MR341-E03C1R5** 512 PPR, Pigtail Length=1.5m
- MR341-E03C03** 512 PPR, Pigtail Length=3m
- MR340-0** OEM Controller
- MR340-1** DIN Rail Mount Controller

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