



MNI40 – MAGNETIC NONCONTACT INCREMENTAL ROTARY ENCODER



The new MNI40 magnetic incremental rotary encoder combines an extraordinarily robust measuring system with intelligent assistance functions in an extremely compact unit. The MNI40 is unaffected by ambient conditions and works reliably in dirty, dusty, or wet environments. Simple installation and adjustment of the sensor using a two-color LED status indicator considerably reduce installation time.

APPLICATIONS

- Machine/plant construction
- Automation technology
- Wind turbines
- Vehicle manufacture
- Construction machinery
- Lifting and conveyor technology
- Outdoor applications/offshore



ROBUST DESIGN,

A fully encapsulated IP67 housing together with an elastomer-coated magnetic wheel provide an exceptionally robust system.



Two-color LEDs (red/green) provide clear status indication.

DESIGN,

Long service life at high speeds and temperatures.

EASY TO USE

Internal intelligence provides easy setup and reliable operation.

Simple installation and adjustment reduce costs.

Self-diagnostics provide quality assurance.

STATUS INDICATION

		<ul style="list-style-type: none"> ■ Completely misaligned ■ Housing too far away from magnetic wheel 	
Solid red LED			
		<ul style="list-style-type: none"> ■ Slightly offset alignment ■ Housing too far away from magnetic wheel 	
Blinking red LED			
		<ul style="list-style-type: none"> ■ Slightly offset alignment ■ Housing at proper distance from magnetic wheel 	
Blinking green LED			
		<ul style="list-style-type: none"> ■ Proper alignment ■ Housing at proper distance from magnetic wheel 	
Solid green LED			



		MNI40N
Pulse count	[ppr]	up to 3,600
Housing style		Compact rectangular housing with magnetic wheel
Hollow shaft	[mm]	ø6, ø10, ø12, ø15
Maximum rpm	[min ⁻¹]	30,000
Operating voltage	[VDC]	5 or 10...30
Output type		Push-pull, RS 422
Max. output frequency	[MHz]	1
Signal outputs		A, \bar{A} , B, \bar{B} , O, \bar{O}
Degree of protection		IP67
Shock resistance		200 g
Vibration resistance		40 g
Operating temperature		-40 °C...100 °C

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