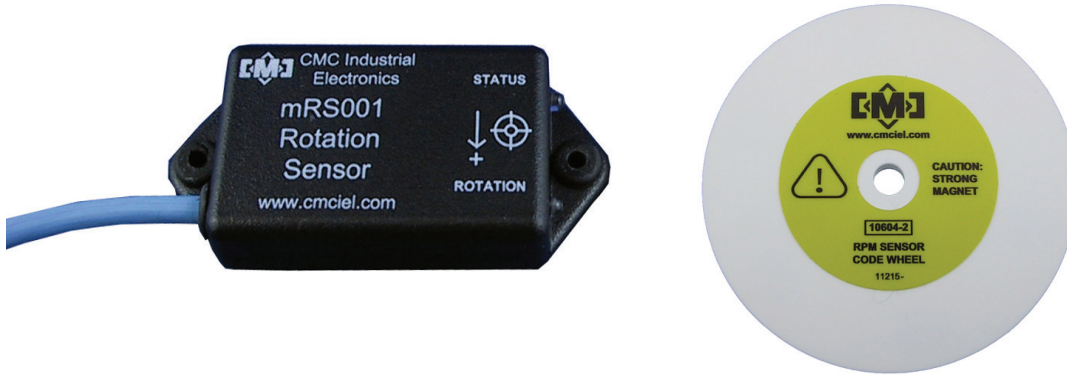


mRS001

SHAFT ROTATION SENSOR AND MAGNETIC CODE WHEEL



- 2m (6') of durable UL 2517 TPE cable with UV protection
- Potted construction for mounting outdoors
- Intrinsically Safe when used with the mBC083 Bus Converter
- Non-contact magnetic measurement
- Measures RPM from 1 – 1000 RPM
- Direction indication provided
- Update rate of 1 second for speeds greater than 10 RPM
- LED indicators for power on/communications and rotation sensing
- No calibration is required

Product Description

The mRS001 is an application specific sensor, designed to measure the speed of rotating machinery. Typically mounted on the tail pulley of a belt conveyor, bucket elevator, or on the drive shaft of a screw conveyor, this device provides the actual shaft RPM. The unit uses non-contact measurement by reading magnetic pulses from a code wheel attached to the drive shaft. Speeds from 1 – 1000 RPM can be measured.

mRS001 SHAFT ROTATION SENSOR

Specifications	Description	Characteristic
IS Sensor Bus	Voltage	5 VDC
	Current	3 mA maximum
	Communications	Single-Wire Bus
Position	Resolution	1 - 1000 RPM
	Accuracy	1.0% of full scale
	Quadrature Magnetic Encoder	6 divisions per revolution
Environment	Operating Range	-40°F to +165°F (-40°C to +73°C)
	Relative Humidity	0 to 95% non condensing
Dimensions	Length	2.9" (74mm)
	Width	1.3" (33mm)
	Depth	0.45" (12mm)