

Emerson - PR9376**PR9376-010-011**

Hall Effect Speed and Key Sensor

Verified model data

Manufacturer	Emerson
Part number	PR9376-010-011
Official designation	PR9376/010-011
Product family	PR9376
Product type	Hall effect speed and key sensor
Sleeve thread	None
Protective hose	Yes
Total sensor length	124 mm
Intermediate plug	No
Total cable length	5 m
Cable end	Open

Selection summary

Emerson PR9376-010-011 is a non-contact Hall effect sensor for speed or key-phase measurement on critical rotating machinery.

The official PR9376/010-011 order code specifies the 124 mm orientation-mark sensor with protective hose, no intermediate plug, 5 m total cable and open cable end.

Before installation or replacement, verify target material and tooth geometry, sensor orientation mark, air gap, supply and load, cable termination, machine speed and receiving-input compatibility.

APTER POWER

Emerson - PR9376

PR9376-010-011

Additional verified data

Trigger frequency range	Up to 12 kHz
Output	One AC period per revolution or tooth
Rise and fall time	1 μ s
Air gap	1 mm for module 1; 1.5 mm for module 2 or larger
Supply	10 to 30 VDC
Current draw	25 mA at 24 VDC, unloaded
Permissible load	400 Ω
Target material	Soft magnetic iron or steel
Operating temperature	-25 to +100°C
Protection class	IP67
Sensor-only weight	210 g
Sensor body envelope	117.5 mm overall by 14 mm body diameter for /010 orientation-mark version

Target Setup

- Use soft-magnetic iron or steel target material
- Keep tooth geometry within the published trigger limits
- Provide mechanical clearance for runout and growth

Electrical Match

- Supply the sensor from 10 to 30 VDC
- Keep the receiving load within the documented limit
- Terminate the 5 m open cable and shield to the approved channel drawing

Pulse Quality

- Check one clean pulse per intended tooth or revolution
- Use the orientation mark to obtain the correct switching geometry
- Investigate missed or double pulses before enabling overspeed or phase logic

Application checkpoints

- Turbine, compressor, pump or fan shaft-speed measurement
- Key-phase or once-per-revolution reference generation
- Gear-tooth pulse sensing for condition monitoring and machinery protection

Evidence boundary: The official 210 g value is sensor-only and excludes the 5 m cable. The listed envelope is the official /010 sensor-body drawing, not shipping dimensions; exact full-assembly net weight remains blank.

Source basis: Emerson PR9376 Hall Effect Speed/Proximity Sensor Specifications, August 2024, and exact PR9376/010-011 ordering and compliance records.