

Installation Identity and Scope

Emerson PR9376-010-011 is a Hall-effect speed and proximity sensor for detecting a rotating ferromagnetic target. The selected configuration uses the PR9376/010 body with protective hose, 5 m cable and open cable end.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PR9376-010-011
Manufacturer	Emerson
Hardware type	Speed Proximity Sensor
System family	PR9376 Hall-Effect Sensors
Official source	Emerson data sheet, August 2024; PR9376 ordering matrix

CONTROLLED ENGINEERING COPY

Set the sensor-to-target air gap for the actual gear module and verify the target is magnetically soft iron or steel, not stainless steel. Confirm 10–30 VDC supply, output levels and pulse frequency before enabling speed protection.

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PR9376-010-011

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Confirm PR9376-010-011 and the ordered cable and hose configuration from the nameplate.
2	Use a magnetically soft iron or steel target; do not use stainless steel as the sensing target.
3	Isolate the rotating machine before adjusting sensor position.
4	Set the air gap for the actual target module.
5	Apply 10–30 VDC with the documented current limit.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	PR9376-010-011
Physical interface	Ferromagnetic tooth or once-per-turn target
Companion check	10–30 VDC sensor input
Configuration	Documented air-gap adjustment
Functional proof	Frequency and speed proof test

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Order code	Record PR9376-010-011 and cable termination.
Target	Confirm steel material and tooth module.
Air gap	Set 1 or 1.5 mm as applicable.
Supply	Measure 10–30 VDC at the sensor.
Logic levels	Check high and low output voltage.
Frequency	Compare measured pulses with tooth count.
Routing	Secure the cable and protective hose.
Protection	Prove indication and any alarm/trip function.

CONFIGURATION BOUNDARY

Set the sensor-to-target air gap for the actual gear module and verify the target is magnetically soft iron or steel, not stainless steel. Confirm 10–30 VDC supply, output levels and pulse frequency before enabling speed protection.

Expected Technical Values

PARAMETER	VALUE
Complete order code	PR9376-010-011
Sensor principle	Hall effect
Output	One AC cycle per revolution or gear tooth
Maximum frequency	12 kHz

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	The exact sensor and target are recorded.
Mechanical	The air gap is correct and mechanically secure.
Electrical	Supply and logic levels meet the documented values.
Functional proof	Pulse frequency, indicated speed and protection action agree.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What target material is required for Emerson PR9376-010-011?	Use magnetically soft iron or steel. The official data sheet excludes stainless steel as the target material.
How much air gap should Emerson PR9376-010-011 have?	Emerson specifies 1 mm for a module-1 target and 1.5 mm for module 2 or larger.
What is the maximum pulse frequency of Emerson PR9376-010-011?	The documented maximum frequency is 12 kHz.
What supply is required by Emerson PR9376-010-011?	The sensor operates from 10–30 VDC and draws no more than 25 mA.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 135613-01-01	View Bently Nevada 135613-01-01
Bently Nevada 135826-01	View Bently Nevada 135826-01
Bently Nevada 136188-01	View Bently Nevada 136188-01
Bently Nevada 136294-01	View Bently Nevada 136294-01
Bently Nevada 136703-01	View Bently Nevada 136703-01
Bently Nevada 136711-01	View Bently Nevada 136711-01
Bently Nevada 136711-02	View Bently Nevada 136711-02
Bently Nevada 138708-01	View Bently Nevada 138708-01

MANUFACTURER SOURCE RECORD

PR9376 Hall Effect Speed/Proximity Sensor Data Sheet
Emerson data sheet, August 2024; PR9376 ordering matrix

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PR9376-010-011 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
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