GREENLINE EXPLOSION PROOF VR SENSORS

Jaquet | Jaquet EX, Jaquet Greenline

View on TE.com >

Sensors > Speed Sensors

The Greenline EX Series variable reluctance (VR) speed sensors are certified for use in explosive atmospheres. They consist of an iron core, an inductive coil, and a permanent magnet.

Sensor Type: **Speed Sensor**

Speed Sensor Features: **Variable Reluctance**

Principle: **Variable Reluctance**

Sensor Housing Material: **Stainless Steel**

Target: **Metal**

A ferrous pole wheel passing the sensor face changes the magnetic field strength, resulting in an AC voltage being induced in the coil.

The frequency of the output signal is proportional to the speed of the moving target. The amplitude of the signal depends on speed, air gap, geometry of target, magnetic properties of target material, and the electrical load. VR sensors, also known as passive or electromagnetic sensors, do not require an external supply.

Features

Product Type Features

Sensor Type	Speed Sensor
Speed Sensor Features	Variable Reluctance
Principle	Variable Reluctance

Signal Characteristics

Target	Metal
Target Material	Ferrous
Output Signal	Sine Wave
Frequency Range (kHz)	.025 - 20

Housing Features

Sensor Housing Material	Stainless Steel
Housing Ambient Temperature (°C)	-40 - 125

Dimensions

Shaft Length (mm)	48, 89, 129
Shaft Diameter (mm)	15.88, 19.05

Usage Conditions

Cable Ambient Temperature (°C)	-40 - 125
Connector Ambient Temperature (°C)	-40 - 125

Reference Number

TE Internal Number	CAT-SPS0010

Related Materials

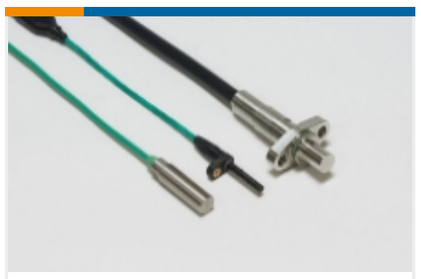
Data Sheet
Greenline EXxxHyy Ex-Atex & NA
English

Data Sheet
Greenline EXxxASyy Ex-NA
English

Catalog Pages/Data Sheets
GreenLine EX10A, EX10S, EX12A, EX12A35, EX38A, EX38S, EX58AM, EX58AM25, EX58AM40, EX58S, EX58S25, EX58S40
PDF
English

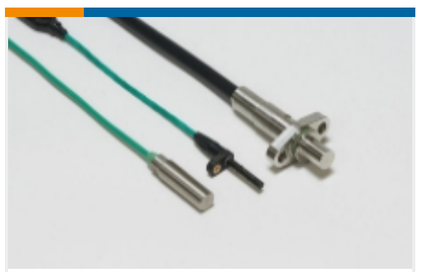
Catalog Pages/Data Sheets
GreenLine EX58H, EX58H35, EX58H85, EX34H, EX34H35
PDF
English

Also in the Series | Jaquet EX



Speed Sensors(1)

Also in the Series | Jaquet Greenline



Speed Sensors(5)