

VARIABLE RELUCTANCE SPEED SENSOR



Jaquet | Jaquet DSE

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Sensors > Speed Sensors

The DSE series variable reluctance (VR) speed sensors consist of an iron core, an inductive coil, and a permanent magnet. A ferrous pole wheel passing the sensor face changes the magnetic field strength, resulting in an AC voltage being induced in the coil.



Sensor Type: **Speed Sensor**

Speed Sensor Features: **Variable Reluctance**

Principle: **Variable Reluctance**

Sensor Housing Material: **Stainless Steel**

Target: **Metal**

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)	Up to 20, Up to 30

Housing Features

Sensor Housing Material	Stainless Steel
Housing Ambient Temperature (°C)	-40 - 100, -40 - 125

Dimensions

Shaft Length (mm)	30, 38, 50, 64
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Shaft Diameter (mm) 15.875, 18, 22

Usage Conditions

Cable Ambient Temperature (°C) -40 - 100, -40 - 125

Connector Ambient Temperature (°C) -40 - 100, -40 - 125

Reference Number

TE Internal Number CAT-SPS0014

Related Materials

Data Sheet

[DSE EH20.06 SxHZ Ex-atex](#)

English

Data Sheet

[DSE 2220 AHZ](#)

English

Data Sheet

[DSE 1810.01 AHZ](#)

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Data Sheet

[DSE EH10.30 AHZ](#)

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[DSE 2210 xxZ](#)

English

Data Sheet

[DSE 1610.15 AHZ and DSE 1810.35 SHZ](#)

English

Catalog Pages/Data Sheets

[DSE 1610.15 AHZ & DSE 1810.35 SHZ](#)

PDF

English

[DSE 1810.01 AHZ](#)

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[DSE 2210 AHZ](#)

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[DSE 2210 ATZ](#)

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[DSE 2210 STZ \(5m\)](#)

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