SPEED SENSORS

3 & 4 CHANNELS HALL EFFECT SPEED SENSORS

	Jaquet DSD 25
Technology	Differential Hall Effect three and four channels
Package	• Stainless steel • Shaft lenght 29 mm • Shaft diameter 24.5 mm
Frequency Range	0 - 20 kHz
Nominal Supply Voltage	Nominal 15VDC (9 VDC to 30 VDC)
Output Signal	3 & 4 channels push-pull
Operating Temp.	-40°C to 125°C
Typical Applications	Railway

DUAL CHANNEL HALL EFFECT SPEED SENSOR

	Jaquet DSD 70
Technology	Differential Hall Effect two channels
Package	• Stainless steel • Shaft lenght 29 mm • Shaft diameter 16 mm
Frequency Range	0 - 20 kHz
Nominal Supply Voltage	Nominal 15VDC (9 VDC to 30 VDC)
Output Signal	2 channels push-pull
Operating Temp.	-40°C to 125°C
Typical Applications	Railway

EDDY CURRENT SPEED SENSORS

	Jaquet DSH
Technology	Eddy Current single channel
Package	• Stainless steel • Shaft lenght 42 mm • Shaft diameter 18 mm
Frequency Range	up to 20 kHz
Nominal Supply Voltage	10 - 30VDC
Output Signal	Square Wave
Operating Temp.	-40°C to 125°C
Typical Applications	Industrial (Power Generation, Hydraulic, Engines, Industry)

	Jaquet DSH 16
	Eddy Current two channels
	• Stainless steel • Shaft lenght 29 mm • Shaft diameter 16 mm
	up to 20 kHz
	Nominal 15 VDC (8 VDC to 30 VDC)
	2 channels push-pull
	120°C
	Railway

HALL EFFECT SPEED SENSORS

	Jaquet Green Line D	Jaquet Green Line Y12AD	Jaquet Green Line F
Technology	Differential Hall Effect single channel	Hall Speed Sensor single channel + direction signal	Hall Effect quasi static
Package	• Stainless steel • Shaft length 26 mm, 64 mm • Shaft diameter 12 mm	• Stainless steel • Shaft length 36 mm • Shaft diameter 12 mm	• Stainless steel • Shaft length various • Shaft diameter various
Frequency Range	5-20 kHz	0-15 kHz	0.05-15 kHz
Nominal Supply Voltage	8-32 VDC	8-32 VDC	8-25 VDC
Output Signal	Square Wave, single channel	Square Wave, single channel + direction signal	Square Wave. single channel
Operating Temp.	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C
Typical Applications	Industrial, non demanding, low cost applications	Industrial, non demanding, low cost applications	Industrial, non demanding, low cost applications

	Jaquet DSD	Jaquet DSF extended power supply	Jaquet DSF EX-ATEX
Technology	Differential Hall Effect single channel	Hall Effect	Hall Effect
Package	• Stainless steel • Various shaft lengths M12, M14, M16, M18, M22 • Various shaft diameter	• Stainless steel • Various shaft lengths • Various shaft diameter	• Stainless steel • Various shaft lengths • Various shaft diameter
Frequency Range	up tp 20 kHz	up to 20 kHz	up to 15 kHz
Nominal Supply Voltage	8-30 VDC	8-28 VDC 10-30 VDC	9-18 VDC
Output Signal	Square Wave, single channel	Square Wave, single channel	2-wire
Operating Temp.	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C
Typical Applications	Industrial (Power Generation, Hydraulic, Engines, Industry)	Industrial (Power Generation, Hydraulic, Engines, Industry)	Industrial (Power Generation, Hydraulic, Engines, Industry), explosion protected, classifed areas

	Jaquet DSF	Jaquet DSL	Jaquet DSS
Technology	Hall Effect	Hall Effect	Hall Effect zero speed
Package	• Stainless steel • Shaft length various • Various shaft diameter	• Stainless steel • Shaft length various • Various shaft diameter	• Stainless steel • Shaft length various • Shaft diameter various
Frequency Range	up to 15 kHz	up to 15 kHz	up to 15 kHz
Nominal Supply Voltage	9-18 VDC	10-25 VDC	8-30 VDC
Output Signal	One channel	Square Wave	Square Wave
Operating Temp.	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C
Typical Applications	Industrial, non demanding, low cost applications	Industrial, non demanding, low cost applications	Industrial, non demanding, low cost applications

HALL EFFECT SPEED SENSORS

	Jaquet DSY	Jaquet DSD 17	Jaquet DSD 40
Technology	Hall Effect chopped	Differential Hall Effect single channel, 3 wires, voltage output	Differential Hall Effect single channel, 2 wires, current output
Package	• Stainless steel • Shaft length various • Various shaft diameter	• Stainless steel • Shaft length various • Various shaft diameter	• Stainless steel • Shaft length various • Various shaft diameter
Frequency Range	0 - 15 kHz	Up to 20 kHz	0 - 20 kHz
Nominal Supply Voltage	4.5 - 16 VDC 8 - 32 VDC	Nominal 15 VDC (9 VDC to 30 VDC)	Nominal 15 VDC (12 VDC to 30 VDC)
Output Signal	Square Wave	1 channel push-pull, voltage output	1 channel push-pull, current output
Operating Temp.	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C
Typical Applications	Industrial (Power Generation, Hydraulic, Engines, Industry)	Railway	Railway

VARIABLE RELUCTANCE SPEED SENSORS

	Jaquet Green Line EV	Jaquet Green Line EX	Jaquet Green Line E	Jaquet SIL-3
Technology	Variable Reluctance (VR) square wave output	Variable Reluctance (VR) Classified Areas (explosion proof)	Variable Reluctance (VR)	Variable Reluctance (VR)
Package	• Stainless steel • Shaft lenght various • Various shaft diameter	• Stainless steel • Shaft lenght 48, 89, 129 mm • Shaft diameter 5/8" and 3/4"	• Stainless steel • Shaft lenght various • Shaft diameter various	• Stainless steel • Shaft lenghts 35 mm up to 101 mm • Shaft diameter M16 and 5/8"
Frequency Range	25 Hz - 20 kHz	25 Hz - 20 kHz	25 Hz - 20 kHz	up to 30 kHz
Nominal Supply Voltage	5-32 VDC	Passive	Passive	Passive
Output Signal	Square Wave	Sine Wave	Sine Wave	Sine Wave
Operating Temp.	-40°C to 125°C	-40°C to 125°C	-40°C to 125°C	-40°C to 150°C
Typical Applications	Industrial, non demanding, low cost applications	Industrial, non demanding, low cost applications	Industrial, non demanding, low cost applications	SIL-3 and SIL-4 applications

POLE WHEEL

FTP520 One piece pole wheel without boss

Material
1.1191 CK45 Ferromagnetic steel, electrogalvanized, whit/ blue passivated 8...12µm

Module
1 to 4

Typical Applications
Raliway traction motors, turbines, diesel engines, motors/generators and large compressors in industrial machinery

FTP530 One piece pole wheel with boss

Material
1.1191 CK45 Ferromagnetic steel, electrogalvanized, whit/ blue passivated 8...12µm

Module
1 to 3

Typical Applications
Measuring chain/signal output optimized

FTP540 & FTP560 Two piece pole wheels

Material
1.1191 CK45 Ferromagnetic steel, electrogalvanized, whit/ blue passivated 8...12µm

Module
1 to 3

Typical Applications
Existing or new designed machine with difficult mounting process of the pole wheel

FTP551 Pole Band

Material
Ferromagnetic Steel St 12.03, surface Zinc-plated DIN/EN/ ISO 9227, passivated blue/ white 8-12µm

Module
≥ 3.0

Typical Applications
Typically used for shafts with small diameters (diameter <500mm) and sensors which are sensitive to high magnetic gradients

FTP552 Pole Band

Material
Ferromagnetic Steel St 12.03, surface Zinc-plated DIN/EN/ ISO 9227, passivated blue/ white 8-12µm

Module
≥ 3.0

Typical Applications
Typically used for shafts with large diameters (diameter >500mm) and sensors which are sensitive to high magnetic gradients

FTP553 Pole Band

Material
Ferromagnetic Steel St 12.03, surface Zinc-plated DIN/EN/ ISO 9227, passivated blue/ white 8-12µm

Module
≥ 3.0

Typical Applications
Typically used for shafts with large diameters (diameter >500mm), large axial movements of the shaft and large number of poles

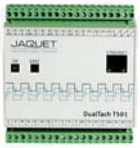
FTP554 Pole Band

Material
Ferromagnetic Steel St 12.03, surface Zinc-plated DIN/EN/ ISO 9227, passivated blue/ white 8-12µm

Module
≥ 3.0

Typical Applications
Typically used for shafts with large diameters (diameter >500mm), large axial and radial movements of the shaft

TACHOMETERS



	T400 Tachometer	T500 dual channel Tachometer	T600 Multitasker
Analog Inputs	0	0	1
Binary Inputs	1	2	2
Analog Ouptuts	1	2	2
Relays	1	4	4
Communication Interface	RS232	LAN (TCP/IP)	LAN/CAN
Nominal Supply Voltage	10 to 36VDC	AC version: 90 to 264VAC DC Version: 18 to 36VDC	AC version: 90 to 264VAC/120 to 370VDC DC Version: 18 to 36VDC
Ambient Temperature	-40°C to 85°C	-25°C to 50°C for AC version -40°C to 70°C for DC version	-25°C to 50°C for AC version -40°C to 70°C for DC version