Technical Specification

Speed Sensor - ITS 472X4443M317 (1 Channel Hall Inch Type)

Valid from 2016.10.31

This speed sensor records speeds on gearwheels with a small module and high resolution. It is optimized for applications in the non-hot area of turbines, in vehicles, mobile work machines and in Hydraulic drives.

The measurement starts from 0 Hz . No alignment is required. The installation dimension of this speed sensor is 5/8".

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Parameters Speed Sensor	Details
Power Supply	8 - 36 VDC
Frequency Range	0 - 15000 Hz
Operating Temperature Range	-40°C (-40°F) to 125°C (257°F)
Degree of Prodection	IP67, IP69K
Material	Stainless Steel
Connection	Cable, 3x0.5mm^2, PUR, 1000mm
Output	PNP
Air Gap	3.2 mm @ 1KHz; M4 basis: involute gear
Mounting Principle	DIN Type Thread, no special alignment required
Tightening Torque	20 Nm
Bending Radius of Connection Cable	50 mm
Current Consumption	< 20 mA
Maximum Output Current	500 mA @ 24 VDC, +25°C 50 mA @ 36VDC, +85°C
Output Signal Level	Low: ≤ 2 V; High: ≥ U_b-2V
Short Circuit Immunity	Against all Terminals
Reverse Polarity Protection	Against all Terminals
Calculation of Maximum Load	$R_L = U_b$ (VDC) / I_{max} (mA)
Terminal Connection	brown: +8 ... 36 VDC black: signal blue: ground

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Environmental Conditions	Details
Operating temperature range	-40°C (-40°F) to 125°C (257°F)
Max. Pressure on Sensing Surface	20 bar
Degree of Protection (IEC 529)	IP67, IP69K
Vibration Resistance (IEC 68-2-6, IEC 68-2-26)	15g @ 1 - 2000Hz
Shock Resistance (IEC 68-2-27)	30g @ 11ms
Bump Proof (IEC 68-2-29)	40g @ 6ms
EMC Standards	EN55011 EN55022 EN 61000-4-2 (ESD, Level B) EN 61000-4-3 (HF-Field, Level A) EN 61000-4-4 (Burst, Level B) EN 61000-4-6 (HF-Line, Level A)

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