

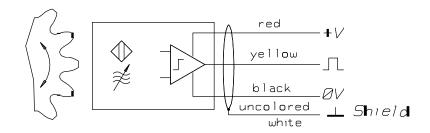
TYP DSH 1840.0x SxHV

HF - SPEED SENSOR WITH AMPLIFIER

General			
Function	The HF speed sensors DSH 1840.01 SHV (Part no. 374Z-04025), DSH 1840.01 S1HV (Part no. 374Z-05305) and DSH 1840.05 SHV (Part no. 374Z-05494) are suitable for use with a pole wheel to generate speed proportional frequency signals. They exhibit dynamic behaviour, whereby pulse generation down to 0.1 Hz is guaranteed. The sensing element is a HF-Oscillator. A metallic poole wheel influences the damping in the oscillator. This modulation is converted to a square wave output signal by an amplifier with trigge characteristics and a short circuit output stage.		
Certification	The DSH sensors are approved by Germanischer Lloyd (GL), Certificate no. 17332-00 HH		
Technical data			
Supply voltage	1030 VDC, max. superimposed AC-voltage of 25 mVpp protected against false polarity		
Current consumption	max. 12mA at 12 Volt (without load)		
Signal output	Square wave signals from push-pull stage, DC-coupled to the supply (negative pole = reference potential), max. load 25 mA, Output voltage HI: > supply voltage -2.5 Volt at I = 15 mA Output voltage LO: < 1.5 Volt at I = 15 mA short-circuit proof and protected against false polarity		
Frequency range	0.1 Hz20 kHz		
Electromagnetic compatible ty (EMC)	Electrostatic discharge into housing, cable shield and wires: Up to 4 kV peak according to IEC 61000-4-2, severity level 2 Radiated electromagnetic field: Up to 30 V/m, 50% AM, 1 KHz in the range of 1 MHz to 1000 MHz according to IEC 61000-4-3, severity level 3 Electrical fast transcients/burts, coupled to sensor cable with a capacitive coupling clamp: up to 4 kV peak according to IEC 61000-4-4, severity level 4		
Insulation	Housing, cable shield and electronics galvanically isolated. (500V/50Hz/1Min.)		

Operating Temperature	-40°C+125°C. (Version H)					
Housing	Aluminium alloy, black anodizied. Dimensions according to dimensional drawing					
Weight	95 g with 2 m cable, 120 g with 3 m cable.					
Protection class	IP67 (head), IP67 (cable outlet)					
Vibration immunity	5 g in the range 52000 Hz					
Shock immunity	50 g during 20 ms, half-sine wave					
Pole wheel	Pole wheel (ST37) Module 4: 0,24,0 mm Pole wheel (aluminium) with blades:					
	Blade thickness 4,0 mm 2.1mm	Blade width 15mm 15mm	Distance between blades 6,5 mm 7.5mm	Pole wheel - sensor gap 0,22,0 mm 0,21,5 mm		
Cable	Teflon cable, PartNo. 824L-35053, 4-wire, 4 x 0.24 mm² (AWG 24), strand shielded (metal net, insulated from housing), white, outer-Ø max. 4.5 mm, bending radius min. 60 mm. The brown wire not used in this sensor is cut off. Shield to be connected to the instrument side 0 V.					
Versions	DSH 1840.01 SHV: Cable 2m long					
	DSH 1840.01 S1HV: Cable 3m long					
	DSH 1840.05 SHV: Cable 2m long, different sealing concept than DSH 1840.01					
	SHV and hence shorter installation length					
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Connecting diagram:



神州融安科技(北京)有限公司

电话:010-62127688、82057633

地址:北京市海淀区花园路2号牡丹科技楼B座三层B308室

网址: www. ronganchi na. cn

CONTACT US

Tel +41 61 306 8822 jaquet.info@te.com

te.com/sensorsolutions

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