

SPEED SENSOR COMPARISON

DESIGN	SPEED AND DIRECTION		SPEED			
SERIES	SNDH-T	SNG-Q	SNDH-H	SNG-S	LCZ	VRS
						
Principle	Dual Hall	Differential Hall	Hall	Hall	Hall	Variable reluctance
Housing	Stainless steel	PBT	Stainless steel/PBT	PBT	Stainless steel	Stainless steel
Power supply	4.5 V to 18 V @ 18 mA	4.5 V to 26 V @ 20 mA	4 V to 24 V @ 6 mA 6.5 V to 24 V @ 20 mA	4.8 V to 24 V @ 15 mA	4.5 V to 26 V @ 20 mA	Passive – N/A
Zero speed	Near yes	No	Yes	Yes	Yes	No
Operating frequency	1 KHz to 15 KHz	3 KHz to 20 KHz	0 KHz to 12 KHz 0 KHz to 15 KHz	0 KHz to 10 KHz	0 KHz to 15 KHz	50 KHz typ.
Output type	Digital pulse, 2 channel with 90° phase shift, open collector	Digital pulse, 2 channel with 90° phase shift, open collector	Digital current sinking, open collector	Digital current sinking, open collector	Digital current sinking, open collector	Analog Sin wave
Operating temperature	-40°C to 150°C [-40°F to 302°F]	-40°C to 150°C [-40°F to 302°F]	-40°C to 150°C [-40°F to 302°F]	-40°C to 140°C [-40°F to 284°F]	-40°C to 150°C [-40°F to 302°F]	-55°C to 120°C [-67°F to 248°F] -73°C to 230°C [-99°F to 446°F]
Max air gap	2 mm	2 mm	2,5 mm	2 mm	2 mm	Application dependent
Termination	<ul style="list-style-type: none"> • Wire harness • Amp Superseal • Amp Jr. Timer 	<ul style="list-style-type: none"> • Cable • Deutsch DTM04-4P • Amp Superseal 	<ul style="list-style-type: none"> • Bosch 928000453 • Delphi-Packard Metripak 150.2 Type 101 • Deutsch DT06-3S 	<ul style="list-style-type: none"> • Bosch 928000453 • Bosch 1928403966 • Amp Superseal 1.5 	Wire harness	Deutsch DT04 connector
Product features	<ul style="list-style-type: none"> • Quadrature speed and direction sensor with 4-wire output • Dynamic offset self calibration, short circuit and reverse voltage protection • Low jitter output, zero speed • Metal housing 	<ul style="list-style-type: none"> • Quadrature speed and direction sensor with 4-wire output • Near zero speed • Plastic housing for lower price point • Designed for potential applications where enhanced accuracy is required to detect small target features 	<ul style="list-style-type: none"> • Single Hall-effect speed sensor • Zero speed sensing • Range of connector options 	<ul style="list-style-type: none"> • Insensitive to angular rotation during assembly • Integral connector • Zero speed 	<ul style="list-style-type: none"> • Omni-directional sensor to target • Threaded housing for easy install • Low power consumption 	<ul style="list-style-type: none"> • Higher temperatures than Hall • Passive component does not require a power supply • 2-wire termination or 2-pin integral connector
Find out more	Visit the SNDH-T web page	Visit the SNG-Q web page	Visit the SNDH-H web page	Visit the SNG-S web page	Visit the LCZ web page	Visit the VRS web page

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