

SPEED SENSOR COMPARISON

DESIGN	SPEED AND DIRECTION		SPEED			
	SNDH-T	SNG-Q	SNDH-H	SNG-S	LCZ	VRS
SERIES						
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 Hz to 15 KHz	3 Hz to 20 KHz	0 Hz to 12 KHz 0 Hz to 15 KHz	0 Hz to 10 KHz	0 Hz 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 DTMO4-4P Amp Superseal 	Delphi-Packard Metripak 150.2 Type 101	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