

Quadrature Speed and Direction Sensors, SNG-Q Series

Table 3. Environmental Specifications

Characteristic	Condition	Parameter
EMI: radiated immunity bulk current injection ESD	ISO 11452-2, 400 MHz to 1 GHz ISO 11452-4, 1 MHz to 400 MHz ISO 10605, Section 9 conforms to CE Mark standards EN60947-5-2:2007 and EN 60947-5-2/A1:2012	100 V/m 100 mA ±8 kV contact, ±15 kV air
Operating temperature	—	-40°C to 150°C [-40°F to 302°F]
Thermal shock, air to air	-40°C to 150°C [-40°F to 302°F], 60 min. soak, <3 s transfer	500 cycles
Humidity	95% humidity at 38 °C [100 °F]	240 hr
Salt fog	5% salt solution by mass at 35 °C [95 °F]	96 hr
Thermal saline dunk	100°C to 25°C [212°F to 77°F] air to liquid, 5% saline	10 cycles
High temperature exposure with power	150°C [302°F], 13.5 Vdc, 1 kOhm load	500 hr
Vibration	3 perpendicular axes, 48 hr per axis	29.28 GMS, 50 Hz to 2000 Hz MIL-STD-202-214
Degree of protection	—	IP69K
Resistance to fluids	—	general under-the-hood automotive fluids

Table 4. Order Guide

Catalog Listing	Description
SNG-QPLA-000	SNG-Q Series, quadrature speed and direction sensor, plastic housing, 35 mm [1.38 in] housing length, 500 mm [19.7 in] cable, right angle exit,
SNG-QPCA-001	SNG-Q Series, quadrature speed and direction sensor, plastic housing, 35 mm [1.38 in] housing length, Deutsch DTM04-4P connector with 1250 mm [49.2 in] cable, right angle exit
SNG-QPRA-000	SNG-Q Series, quadrature speed and direction sensor, plastic housing, 35 mm [1.38 in] housing length, integral Amp Superseal 1.5 connector, right angle exit
SNG-QPMB-000	SNG-Q Series, quadrature speed and direction sensor, plastic housing, 45 mm [1.77 in] housing length, 500 mm [19.7 in] cable, straight exit
SNG-QPDB-000	SNG-Q Series, quadrature speed and direction sensor, plastic housing, 45 mm [1.77 in] housing length, Amp Superseal 1.5 connector 282106 with 145 mm [5.71 in] cable, straight exit
SNG-QPDB-002	SNG-Q Series, quadrature speed and direction sensor, plastic housing, 45 mm [1.77 in] housing length, Deutsch DTM04-4P connector with 1250 mm [49.2 in] cable, straight exit

Figure 1. General Nomenclature

For example, **SNG-QPLA-000** defines an SNG-Q Series quadrature speed and direction sensor, plastic housing, cable with leads, right angle exit, 35 mm [1.38 in] housing length.

SNG-Q Series	P Housing Material ¹	L Connection Type ²	A Housing Length	-	000 For Internal Use Only
4-wire quadrature speed and direction sensor	P Plastic	S Integral connector, straight exit ³ R Integral connector, right angle exit L Cable with leads, right angle exit M Cable with leads, straight exit C Connector with cable, right angle exit D Conenctor with cable, straight exit ³	A 35 mm [1.38 in] B 45 mm [1.77 in]		

¹ Contact Honeywell for other Housing Material options.

² Other cable lengths available upon request.

³ Contact Honeywell.

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Figure 2. Sensor Output (All catalog listings)

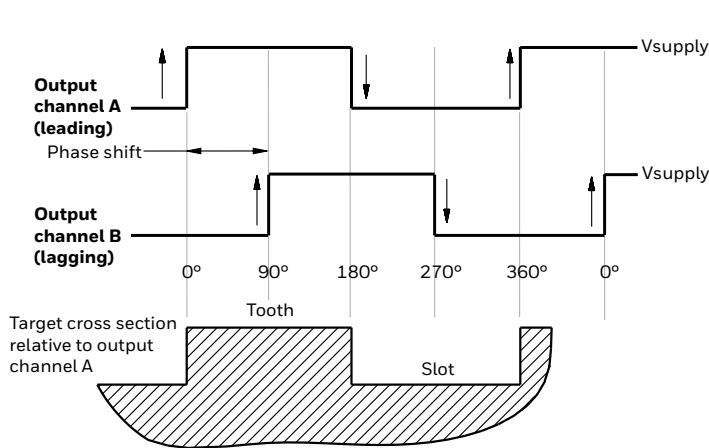


Figure 3. Possible Mounting Orientations

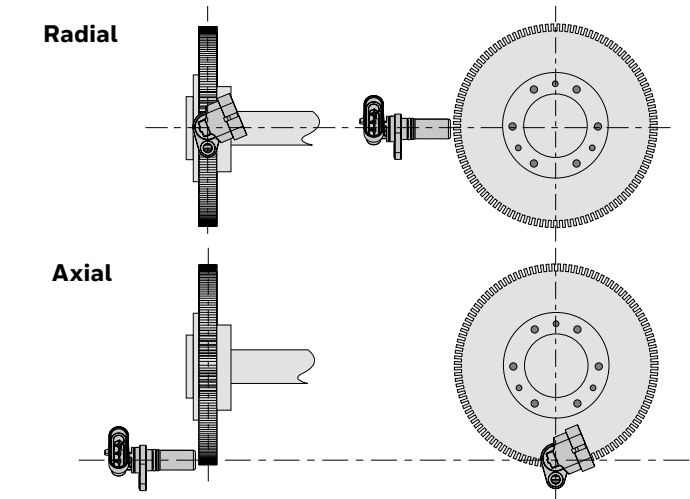


Figure 4. SNG-QPLA-000 Mounting Dimensions (For reference only: mm/[in.])

