


Industrial VRS Magnetic Speed Sensors

5/8 INCH EXPLOSION-PROOF SENSORS (All dimensions for reference only. mm/[in])

When properly installed using the explosion containment method, the 3090X catalog listings on this page are certified for use in hazardous locations as follows: Class I, Groups A, B, C, D; Class II Groups E, F, G; Class III.

These catalog listings have been tested to and meet the requirements of applicable U.S. and Canadian specifications for the locations described above.

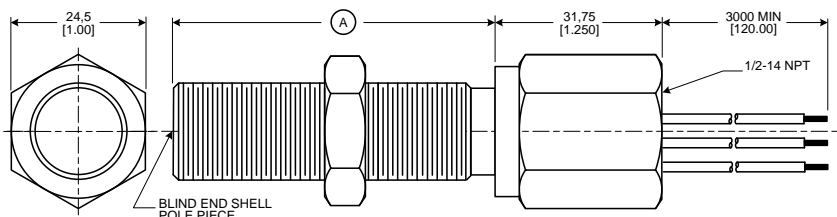
The catalog listings on this page conform to standards:  II 3 G EEx nA II T6.

General Specifications

Parameter	Characteristic	Parameter	Characteristic
Min. output voltage	60 Vp-p	Inductance	115 mH max.
Coil resistance	191 Ohm to 280 Ohm	Gear pitch range	12 DP (module 2.11) or coarser
Pole piece diameter	4,75 mm [0.187 in]	Optimum actuator	8 DP (module 3.17) ferrous metal gear
Minimum surface speed	0,38 m/s [15 in/s] typ.	Maximum operating frequency	40 kHz typ.
Operating temp. range	-73 °C to 93 °C [-100 °F to 200 °F]	Vibration	Mil-Std 202F Method 204D
Mounting thread	5/8-20 UNF-2A	Termination	18 AWG PVC-insulated leads

Test Condition Specifications

Parameter	Characteristic
Surface speed	25 m/s [1000 in/s]
Gear	8 DP (module 3.17)
Air gap	0,127 mm [0.005 in]
Load resistance	100 kOhm

Catalog Listing	Thread Length (A)	Weight	
3090A	45 mm [1.8 in]	280 g [9.0 oz]	
3090A35	88 mm [3.5 in]	366 g [10.0 oz]	

Hazardous Location

5/8 INCH (M16*) INTRINSICALLY SAFE VRS SENSORS (All dimensions for reference only. mm/[in])

*Contact Honeywell for availability of metric mounting thread versions.

When properly installed using the intrinsic safety protection method connected per the control drawings on pages 6 and 7, catalog listings 3042A is intrinsically safe for hazardous locations as follows:

Class I, Groups A, B, C, D.

This product has been tested to and meets the requirements of applicable U.S. and Canadian specifications for the locations described above.

General Specifications

Parameter	Characteristic	Parameter	Characteristic
Min. output voltage	30 Vp-p	Inductance	26 mH max.
Coil resistance	150 Ohm	Gear pitch range	16 DP (module 1.58) or coarser
Pole piece diameter	3,9 mm [0.156 in]	Optimum actuator	12 DP (module 3.17) ferrous metal gear
Min. surface speed	0,38 m/s [15 in/s] typ.	Max. operating frequency	40 kHz typ.
Operating temp. range	-55 °C to 120 °C [-67 °F to 250 °F]	Vibration	N/A
Mounting thread	5/8-18 UNF-2A	Termination	MS3106 connector

Test Condition Specifications

Parameter	Characteristic
Surface speed	25 m/s [1000 in/s]
Gear	8 DP (module 3.17)
Air gap	0,127 mm [0.005 in]
Load resistance	100 kOhm

Catalog Listing	Weight	
3042A	70 g [2.5 oz]	