

Industrial VRS Magnetic Speed Sensors

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

*Contact Honeywell for availability of metric mounting thread versions.

NOMINAL RESISTANCE COILS FOR LOW IMPEDANCE LOAD APPLICATIONS

General Specifications

Parameter	Characteristic	Parameter	Characteristic
Min. output voltage	45 Vp-p	Inductance	85 mH max.
Coil resistance	141 Ohm typ.	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)
Min. surface speed	0,38 m/s [15 in/s] typ.	Max. operating frequency	40 kHz typ.
Operating temp. range	-55 °C to 230 °C [-67 °F to 450 °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	1.25 kOhm

Catalog Listing	Thread Length (A)	Weight	
3040HTB	28 mm [1.1 in]	70 g [2.5 oz]	
3040HTB25	63 mm [2.5 in]	84 g [3.0 oz]	

High Temperature

5/8 INCH SEALED FRONT-END SENSORS (All dimensions for reference only. mm/[in])

(No metric available.)

NOMINAL RESISTANCE COILS FOR LOW IMPEDANCE LOADS APPLICATIONS

General Specifications

Parameter	Characteristic	Parameter	Characteristic
Min. output voltage	60 Vp-p	Inductance	85 mH max.
Coil resistance	120 Ohm to 162 Ohm	Gear pitch range	12 DP (module 2.11) or coarser
Pole piece diameter	4,39 mm [0.173 in]	Optimum actuator	8 DP (module 3.17)
Min. surface speed	0,38 m/s [15 in/s] typ.	Max. operating frequency	40 kHz typ.
Operating temp. range	-54 °C to 220 °C [-65 °F to 428 °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	1.25 kOhm

Catalog Listing	Weight	
MA243HT	98 g [3.5 oz]	<p>Technical drawing of the MA243HT sensor. It includes a side view with dimensions: 19,05 [0.750] for the pole piece diameter, 76 [3.0] for the total length, and 28,12 [1.107] for the gear section length. A diameter of Ø19,05 [0.750] is indicated for the gear section. A cross-section view on the right shows the gear teeth and labels 'A' and 'B' for the gear and pole piece respectively. A label 'BRAZED THROUGH POLE PIECE' points to the gear section.</p>