








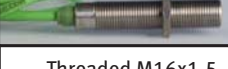
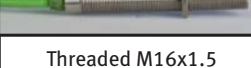








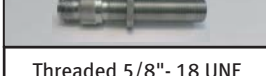
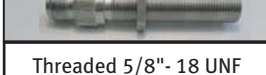
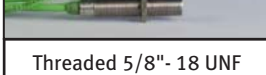
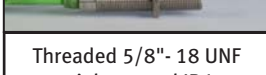
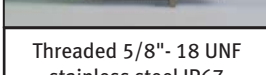
## VR ELECTROMAGNETIC SPEED SENSORS

- **Temperature rating:** -40...125°C • **Signal output:** Frequency and amplitude proportional to speed
- **Frequency range:** up to 20 kHz.

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>E12A</b>			
Threaded M12x1 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Thread length: 40 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E12S</b>			
Threaded M12x1 stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16A</b>			
Threaded M16x1.5 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Thread length: 40 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16A25</b>			
Threaded M16x1.5 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 84 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16A40</b>			
Threaded M16x1.5 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 122 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16AM</b>			
Threaded M16x1.5 stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 61 mm Thread length: 33 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16AM25</b>			
Threaded M16x1.5 stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 92 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16AM40</b>			
Threaded M16x1.5 stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 130 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16S</b>			
Threaded M16x1.5 stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16S25</b>			
Threaded M16x1.5 stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 83 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E16S40</b>			
Threaded M16x1.5 stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 121 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser





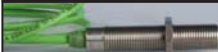

## VR ELECTROMAGNETIC SPEED SENSORS - continued

- **Temperature rating:** -40...125°C • **Signal output:** Frequency and amplitude proportional to speed
- **Frequency range:** up to 20 kHz.

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>E38A</b>			
Threaded 3/8"- 24 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 48 mm Thread length: 34 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E38S</b>			
Threaded 3/8"- 24 UNF stainless steel IP67	Cable, silicone, 1m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 54 mm Thread length: 34 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58A</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Thread length: 40 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58A25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 84 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58A40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 121 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58AM</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 61 mm Thread length: 33 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58AM25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 92 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58AM40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 130 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58S</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58S25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 83 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>E58S40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 121 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser

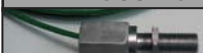



## DIGITAL ELECTROMAGNETIC SPEED SENSORS

- **Temperature rating:** -40...125°C • **Signal output:** Frequency proportional to speed • **Frequency range:** up to 20 kHz
- **Supply voltage:** 5...32 VDC

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>EV58AM</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 61 mm Thread length: 33 mm	Square wave, NPN with 2.2 kOhm pull up	M: .5 or larger DP: 50 or coarser
	<b>EV58AM25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 92 mm Thread length: 64 mm	Square wave, NPN with 2.2 kOhm pull up	M: .5 or larger DP: 50 or coarser
	<b>EV58AM40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 130 mm Thread length: 102 mm	Square wave, NPN with 2.2 kOhm pull up	M: .5 or larger DP: 50 or coarser
	<b>EV58S</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Square wave, NPN with 2.2 kOhm pull up	M: .5 or larger DP: 50 or coarser
	<b>EV58S25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 83 mm Thread length: 64 mm	Square wave, NPN with 2.2 kOhm pull up	M: .5 or larger DP: 50 or coarser
	<b>EV58S40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 121 mm Thread length: 102 mm	Square wave, NPN with 2.2 kOhm pull up	M: .5 or larger DP: 50 or coarser









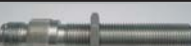

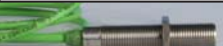

## VR - ELECTROMAGNETIC SPEED SENSORS - EX ATEX Zone 1 / CSA Class 1 Div 1

- **Temperature rating:** -40...125°C • **Signal output:** Frequency and amplitude proportional to speed
- **Frequency range:** up to 20 kHz. **CERTIFIED FOR USE IN EXPLOSIVE ATMOSPHERES.**

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>EX58H</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	1/2 - 14 NPT Cable PTFE, 3 m	Overall length: 88 mm Thread length: 48 mm	Sine wave output 250 Ohm / 70 mH coil	M: 1.0 or larger DP: 25 or coarser
	<b>EX58H35</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	1/2 - 14 NPT Cable PTFE, 3 m	Overall length: 120 mm Thread length: 89mm	Sine wave output 250 Ohm / 70 mH coil	M: 1.0 or larger DP: 25 or coarser
	<b>EX34H</b>			
Threaded 3/4"- 16 UNF stainless steel IP67	1/2 - 14 NPT Cable PTFE, 3 m	Overall length: 88 mm Thread length: 48 mm	Sine wave output 250 Ohm / 70 mH coil	M: 1.0 or larger DP: 25 or coarser
	<b>EX34H35</b>			
Threaded 3/4"- 16 UNF stainless steel IP67	1/2 - 14 NPT Cable PTFE, 3 m	Overall length: 120 mm Thread length: 89 mm	Sine wave output 250 Ohm / 70 mH coil	M: 1.0 or larger DP: 25 or coarser



## VR ELECTROMAGNETIC SPEED SENSORS - EX ATEX Zone 2/ CSA Class 1 Div 2

- **Temperature rating:** -40...125°C • **Signal output:** Frequency and amplitude proportional to speed
- **Frequency range:** up to 20 kHz. **CERTIFIED FOR USE IN EXPLOSIVE ATMOSPHERES.**

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>EX10A</b>			
Threaded M10x1 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 48 mm Thread length: 34 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX10S</b>			
Threaded M10x1 stainless steel IP67	Cable, PTFE, 3m 0.21 mm <sup>2</sup> , AWG 24	Overall length: 54 mm Thread length: 34 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX12A</b>			
Threaded M12x1 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Thread length: 40 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX12A35</b>			
Threaded M12x1 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 109 mm Thread length: 89 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX38A</b>			
Threaded 3/8"- 24 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 48 mm Thread length: 34 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX38S</b>			
Threaded 3/8"- 24 UNF stainless steel IP67	Cable, PTFE, 3m 0.21 mm <sup>2</sup> , AWG 24	Overall length: 54 mm Thread length: 34 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX58AM</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 61 mm Thread length: 33 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX58AM25</b>			
Threaded 5/8"- 24 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 92 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX58AM40</b>			
Threaded 5/8"- 24 UNF stainless steel IP67	Connector, MS 3102A-10SL-4P, 2 pin	Overall length: 130 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX58S</b>			
Threaded 5/8"- 24 UNF stainless steel IP67	Cable, PTFE, 3 m, 0.21 mm <sup>2</sup> , AWG 24	Overall length: 69 mm Thread length: 50 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX58S25</b>			
Threaded 5/8"- 24 UNF stainless steel IP67	Cable, PTFE, 3 m, 0.21 mm <sup>2</sup> , AWG 24	Overall length: 83 mm Thread length: 64 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser
	<b>EX58S40</b>			
Threaded 5/8"- 24 UNF stainless steel IP67	Cable, PTFE, 3 m, 0.21 mm <sup>2</sup> , AWG 24	Overall length: 121 mm Thread length: 102 mm	Sine wave output 850 Ohm, 135 mH	M: .5 or larger DP: 50 or coarser


## DIFFERENTIAL HALL EFFECT SPEED SENSORS

- **Temperature rating:** -40...125°C • **Signal output:** Frequency proportional to speed • **Frequency range:** 5 Hz to 20 kHz
- **Supply voltage:** 8...32 VDC

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>D12A</b>			
Smooth 10.8 mm OD flange mount IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Shaft length: 25.7 mm	Square wave Push-pull output	M: .5 or larger DP: 50 or coarser
	<b>D12P</b>			
Threaded M12x1 stainless steel IP67	Cu cable insulation PTFE, 0.35 m, 0.21 mm <sup>2</sup> , AWG 24 with connector 3 pin AMP	Overall length: 69 mm Thread length: 50 mm	Square wave Push-pull output	M: .5 or larger DP: 50 or coarser






## DUAL CHANNEL HALL EFFECT SPEED AND DIRECTION SENSORS

- **Temperature rating:** -40...125°C • **Signal output:** Frequency proportional to speed (channel 1) and direction (channel 2)
- **Frequency range:** 0 Hz to 15 kHz • **Supply voltage:** 11...32 VDC

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>Y12AD</b>			
Threaded M12x1 with O-ring and locator key	Connector, M12X1, 4 pin, sealed	Overall length: 75 mm Shaft length: 36 mm	Square wave output NPN plus direction line	M: 1.0 or h larger DP: 25 or coarser










## ZERO SPEED HALL EFFECT SPEED SENSORS

- **Temperature rating:** -40...125°C • **Signal output:** Frequency proportional to speed • **Frequency range:** 0 Hz to 15 kHz
- **Supply voltage:** 8...25 VDC

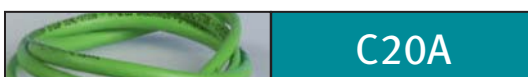
HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>F12A</b>			
Threaded M12x1 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Thread length: 40 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F12S</b>			
Threaded M12x1 stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F16A</b>			
Threaded M16x1.5 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60mm Thread length: 40mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F16A25</b>			
Threaded M16x1.5 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 84 mm Thread length: 64 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F16A40</b>			
Threaded M16x1.5 stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 121 mm Thread length: 102 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser

## ZERO SPEED HALL EFFECT SPEED SENSORS continued

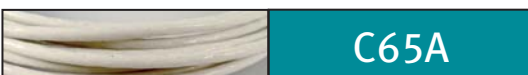
- **Temperature rating:** -40...125°C • **Signal output:** Frequency proportional to speed • **Frequency range:** 0 Hz to 15 kHz
- **Supply voltage:** 8...25 VDC

HOUSING	CONNECTION	MECHANICAL	ELECTRICAL	MODULE / DP RANGE
	<b>F16S</b>			
Threaded M16x1.5 stainless steel IP67	Cable, Silicone, 1m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F16S25</b>			
Threaded M16x1.5 stainless steel IP67	Cable, Silicone, 1m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 83 mm Thread length: 64 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F16S40</b>			
Threaded M16x1.5 stainless steel IP67	Cable, Silicone, 1m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 121 mm Thread length: 102 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F58A</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 60 mm Thread length: 40 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F58A25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 84 mm Thread length: 64 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F58A40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Connector, M12X1, 4 pin, sealed	Overall length: 121 mm Thread length: 102 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F58S</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 69 mm Thread length: 50 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F58S25</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 83 mm Thread length: 60 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser
	<b>F58S40</b>			
Threaded 5/8"- 18 UNF stainless steel IP67	Cable, silicone, 1 m 0.34 mm <sup>2</sup> , AWG 22	Overall length: 121 mm Thread length: 102 mm	Square wave, NPN with 2.7 kOhm pull up	M: 1.0 or larger DP: 25 or coarser

## MATING CABLE ASSEMBLY for all sensors with M12x1 connector



- **Material:** PU (poly-urethane) • **Length:** 2 m • **Color:** Green • **Temperature rating:** -20...85°C
- **Connector:** M12 standard, overmoulded. Pin 1 = brown, Pin 2 = white, Pin 3 = blue, Pin 4 = black



- **Material:** PTFE • **Length:** 6.5 m • **Color:** White • **Temperature rating:** Cable -40...260°C / Connector -30...90°C
- **Connector:** M12 standard, overmoulded. Pin 1 = red, Pin 2 = black, Pin 3 = brown, Pin 4 = yellow