Hall Effect Speed/ Proximity Sensor

Non-contact Hall effect sensor designed for speed or proximity measurements on critical turbomachinery applications such as steam, gas and hydro turbines, compressors, pumps, and fans.



Dynamic Performance	
Output	1 AC cycle per revolution/gear tooth
Rise/Fall Time	1 µs
Output Voltage (12 VDC at 100 Kload)	High >10 V / Low <1V
Air Gap	1 mm (Module 1)
	1.5 mm (Module ≥2)
Maximum Operating Frequency	12 kHz (720,000 cpm)
Trigger Mark Limited to	Spur Wheel, Involute Gearing Module 1
	Material ST37
Measuring Target	
Target/Surface Material	Magnetic soft iron or steel (non stainless steel)
Environmental	
Reference Temperature	25°C (77°F)
Operating Temperature Range	-25 to 100°C (-13 to 212°F)
Storage Temperature	-40 to 100°C (-40 to 212°F)
Sealing Rating	IP67
Power Supply	10 to 30 VDC @ max. 25mA
Resistance	Max. 400 Ohms
Material	Sensor – Stainless steel; Cable – PTFE
Weight (Sensor only)	210 grams (7.4 oz)

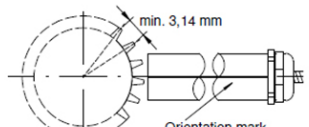


Fig. 1
Accurate mounting position

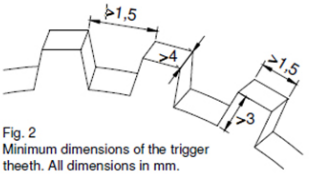


Fig. 2
Minimum dimensions of the trigger theeth. All dimensions in mm.

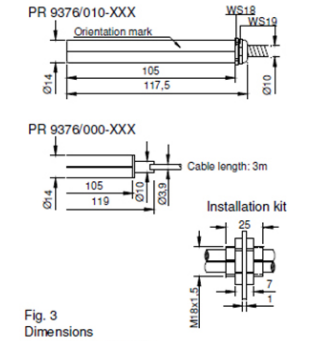


Fig. 3
Dimensions
All dimensions in mm

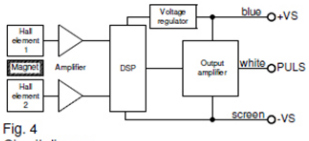


Fig. 4
Circuit diagram

