



Wind Cluster®
Creating Synergy

Zero Speed Differential Ferrostat Sensor

July 2009

Zero speed differential ferrostat sensor

Wind Cluster's zero speed differential sensors for measurement of e.g. hub speed and shaft revolutions are engineered with an internal magnet to switch in the presence of ferrous targets such as gear teeth and blade tips down to absolute zero speed. The sensor detects fluctuations in the magnetic field and can also be configured so the output signal signifies either the presence or absence of a ferro-magnetic target (i.e. a gear tooth).

- Speed detection from zero speed to 100 kHz
- Digital output
- Extremely accurate
- Position or quadrature measuring capability
- Detects direction of rotation
- No special alignment requirement relative to the pole wheel or target gear
- Large air gap
- High temperature range (-40°C to 150°C)
- 2-year warranty
- Low cost

SPECIFICATIONS:

SUPPLY VOLTAGE V_s : 3.5–30VDC @ 10mA MAX., REVERSE POLARITY PROTECTED

PULSE OUT V_o : 0– V_s @ 25 mA SINK

OPERATING FREQUENCY: 0–25 kHz

AIRGAP: 24 dp, MODULE 1 : 0.1 to 1.1mm
12 dp, MODULE 2 : 0.1 to 1.8mm
5 dp, MODULE 5 : 0.1 to 3.2mm

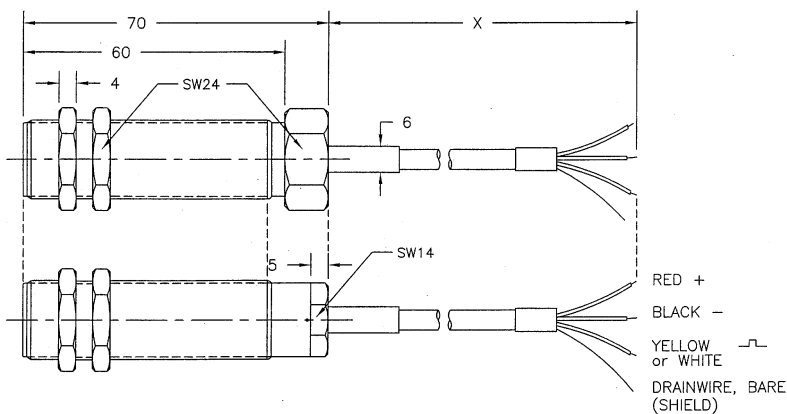
VIBRATION/SHOCK RESISTANCE: 5 G's @ 2000 Hz MIN.; IMPACT: 50 G'S MIN.

INGRESS PROTECTION: IP68

TEMP. RANGE: -40° TO 150°C

CONSTRUCTION: STAINLESS STEEL HOUSING,
SOLD EPOXY ENCAPSULATION

CE
EN55011
EN50022-2



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