

LCZ Series

Hall Effect Zero Speed Sensors



The LCZ Series Hall Effect Speed Sensors address a variety of industrial control, factory automation and rotary equipment applications requiring a long-life, cost effective solution in manufacturing or where durability is a factor in harsh environments. Assembled in a stainless steel, easily adjustable package, the LCZ Series is suitable for a wide range of speed applications. Versatile and simple to install, this Hall Effect speed sensor does not require rotational orientation.

APPLICATIONS

- Industrial process control
- Factory automation
- Meter
- Pump
- Roller
- Mixer
- Fan speed
- Transmission
- Gear reducer RPM
- Process speed
- Synchronization
- Spindle
- Generator set
- Compressor speed
- Dyno testing
- R&D testing
- RPM

FEATURES

- Low cost
- Zero speed
- Omni-directional sensor to target orientation
- Digital output
- Small size
- Low power consumption
- Environmentally sealed

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SPECIFICATIONS

MECHANICAL

Housing: Stainless Steel 3/8, 1/2, 5/8, 15/32 with one hex nut, blind (sealed) front end

Interconnect: 69" TPE 24 AWG 3-conductor shielded cable

ELECTRICAL

Supply Voltage: 4.5 to 26 VDC @ 20 mA maximum

Operating Frequency: 0 to 15 kHz

Output Signal: Open drain MOSFET, sinking configuration short circuit protected

Voltage Low: .4V maximum @ 30 mA maximum sink

Voltage High: 30 VDC maximum

Duty Cycle: 40% to 60%

Dielectric: 200 VDC

Air Gap:

Performance: See graph

ENVIRONMENTAL

Sealing: Hermetically sealed sensing face
IP67 rated cable exit area

Low Temperature Operation: -40° C

High Temperature Operation: 125° C

Storage Temperature: 125° C maximum

Shock: 50 Gs, 11ms

Vibration: 15Gs, 10 to 2000 Hz

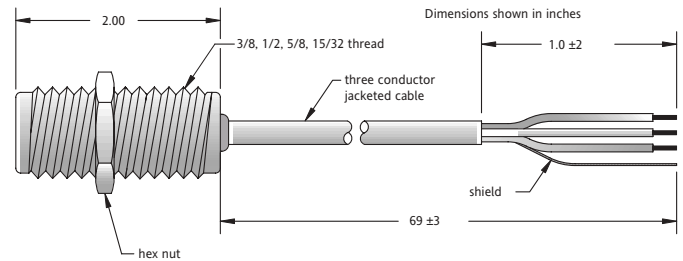
MODEL NUMBER CONFIGURATION

	THREAD	FLATS
LCZ260:	3/8-24	.312
LCZ360:	1/2-20	.438
LCZ460:	5/8-18	.562
LCZ560:	15/32-32	.438

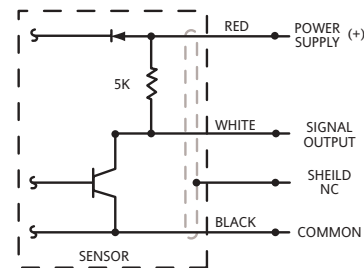
Note: For 3" thread length, add -30 to model #.

Note: Contact Factory for custom OEM applications

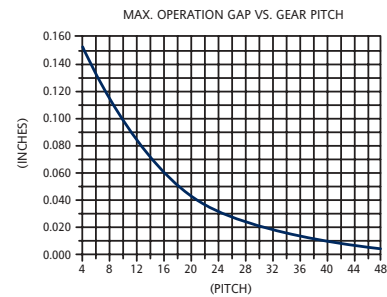
DIMENSIONS



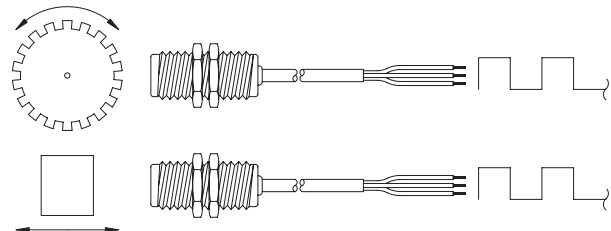
EQUIVALENT ELECTRICAL SCHEMATIC



AIR GAP PERFORMANCE



TARGET MOTION



Sensor Systems

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