

Honeywell Sensing and Control

LCZ260



Single hall-effect zero speed sensor

Actual product appearance may vary.

Features

- Low cost
- Omni-directional sensor to target orientation
- Digital output
- Small size
- Low power consumption

Potential Applications

- · Industrial process control
- Factory automation
- Rotary applications, such as pumps, rollers, mixers, fan speed measurement, transmission, spindles, gear reducer RPM and process speed

Description

The LCZ Series Hall-effect Zero Speed Sensors provide a durable, cost-effective solution in most harsh environments. The sensor is available in 9,5 mm [3/8 in/0.375 in] and 15,9 mm [5/8 in/0.625 in] diameters, in both 50,8 mm [2.00 in] and 76,2 mm [3.00 in] lengths. The stainless steel package is simple to install and adjust and does not require rotational orientation.

Product Specifications		
Sensing Type	Single hall-effect zero speed	
Housing Diameter	9,5 mm [3/8 in]	
Barrel Length	50,8 mm [2.0 in]	
Vdc Supply	4.5 Vdc to 26 Vdc	
Operating Frequency Range	0 Hz to 15 kHz	
Operating Temperature	-40 °C to 125 °C [-40 °F to 257 °F]	
Connections	1750 mm [69 in] leads	
Availability	Global	
UNSPSC Code	411121	
UNSPSC Commodity	411121 Transducers	
Series Name	LCZ	

Honeywell

LCZ Series

Hall-effect Zero Speed Sensors



DESCRIPTION

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FEATURES

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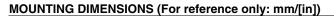
POTENTIAL APPLICATIONS

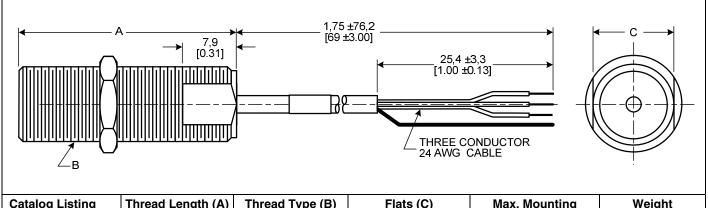
- Industrial process control
- · Factory automation
- Rotary applications, such as:
 - Pumps
 - Rollers
 - Mixers
 - Fan speed measurement
 - Transmission
 - Spindles
 - Gear reducer RPM
 - Process speed
 - Synchronization
 - Generator set
 - Compressor speed
 - Dyno testing

LCZ Series

SENSOR SPECIFICATIONS

Characteristic	Minimum	Maximum	Unit	Condition
Supply voltage	4.5	26	Vdc	-
Supply current	_	20	mA	load = infinity, Vcc = 26
Reverse polarity	30	-	Vdc	-
Output sinking	_	20	mA	0.4 V max. short circuit protected
Voltage low	_	0.4	V	at 30 mA max. sink
Voltage high	_	30	Vdc	-
Duty cycle	20	80	%	within operating gap
Operating frequency	0	15 k	Hz	no orientation required
Output signal rise/fall time	_	4.0	μS	880 Ohm, 20 pF
Dielectric strength	200	_	Vac	<2 mA leakage
Operation gap	-	_	_	at gaps below curve (see Air Gap Performance Curve)
Output impedance	4.7	5.3	kOhm	-
Operating temperature range	-40 [-40]	125 [257]	°C [°F]	-
Storage temperature	_	125 [257]	°C [°F]	_
Sealing	IP68			
Shock	50 Gs, 11 ms			_
Vibration	15 Gs, 10 Hz to 2000 Hz			-
Housing material	stainless steel		_	
Weight	see Mounting Di	imensions		_

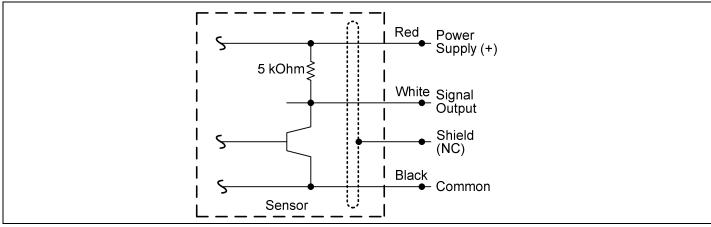




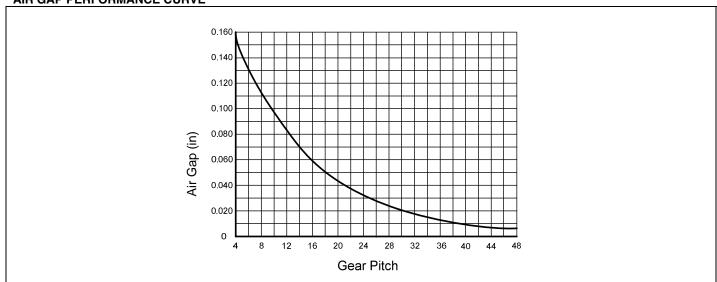
1 oz]
4 oz]
7 oz]
4.8 oz]

Hall Effect Zero Speed Sensor

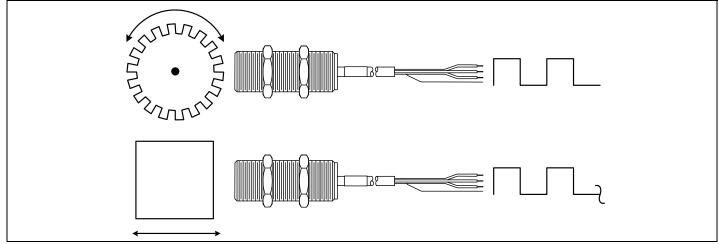
EQUIVALENT ELECTRICAL SCHEMATIC



AIR GAP PERFORMANCE CURVE



TARGET MOTION



ORDER GUIDE

Catalog Listing	Description
LCZ260	Hall-effect speed sensor, 3/8-24UNF-2A thread, 50,8 mm [2.00 in] length
LCZ260-30	Hall-effect speed sensor, 3/8-24UNF-2A thread, 76,2 mm [3.00 in] length
LCZ460	Hall-effect speed sensor, 5/8-18UNF-2A thread, 50,8 mm [2.00 in] length
LCZ460-30	Hall-effect speed sensor, 5/8-18UNF-2A thread, 76,2 mm [3.00 in] length