

IMPRESS

SENSORS & SYSTEMS

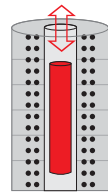
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Pressure - Temperature - Level - Flow - Analytical - Control - Indication - Data logging

More Precision.

induSENSOR

Linear inductive displacement sensors



MSC7210 sensor controller for LIP series



Rugged die-cast housing

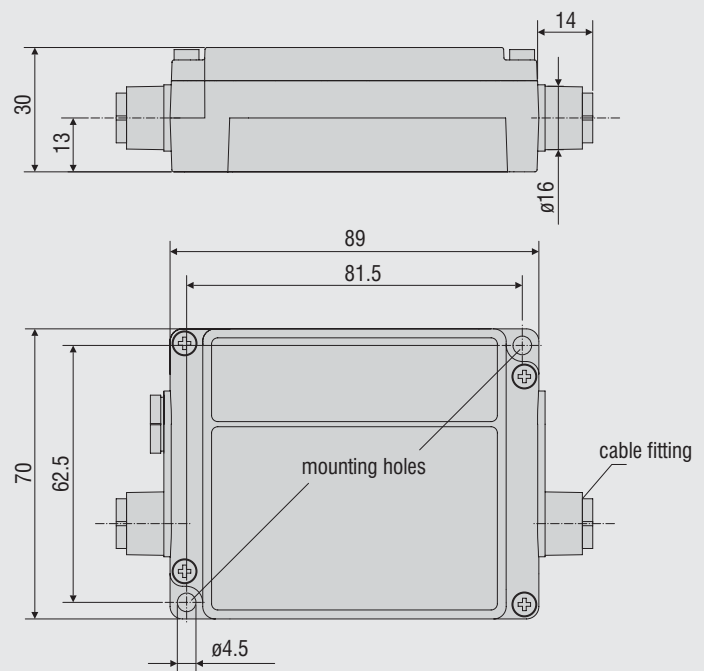
For all sensors in the LIP series

Adjustable excitation frequency 4-33 kHz

Zero point and gain can be adjusted

High resolution and linearity

The MSC7210 is a single-channel electronic unit for the operation of inductive displacement transducers according to the LIP principle. The zero point and gain can be set over a wide range using trimming potentiometers. Due to the small size, the electronic unit is versatile in mounting.



Model		MSC7210-U	MSC7210-I
Power supply		18 ... 30 Vdc	
Protection		Polarity reversal and overvoltage protection	
Sensor principle		LIP sensor	
Sensor excitation		1000 ... 2600 mV 4 ... 33 kHz (16 steps selectable via DIPswitch)	
Range	gain	-20 ... +270 % FSO (trimpot)	
	zero	±70 % FSO (trimpot)	
Output signal		2 ... 10 Vdc	4 ... 20 mA
Noise		< 1.5 mV _{eff} *	< 3 μA _{eff} *
		< 15 mV _{ss}	< 30 μA _{ss}
Linearity		< ± 0.02 % FSO	
Frequency response		300 Hz	
Temperature range	storage	-40 °C ... +85 °C	
	operating	0 °C ... +70 °C	
Temperature stability		±100 ppm / °C	
Housing material		Zinc die cast	
Electromagnetic compatibility (EMC)		EN 50 081-2 (spurious emission)	
		EN 50 082-2 (immunity to interference)	
Protection class		IP65	
Shock		test signal: Half sine wave peak acceleration 15 g shock duration 6 ms test axes x, y, z No. of impacts per axis: 1000	
		test signal: Sine - sweep frequency: 20 ... 500 Hz test axes x, y, z No. of frequency cycles per axis: 10	
Sensor connection		plugable screw clamp 4-pin	
Signal/supply connection		plugable screw clamp 5-pin	

FSO = Full Scale Output

* RMS AC measurement, frequency 3 Hz ... 300 Hz

More Precision.

Sensors and systems

for displacement, position and dimension

Sensors and measurement devices

for non-contact temperature measurement

Measurement systems

for online/offline quality control