sens4pro Sensors Store by TEXYS

XN4

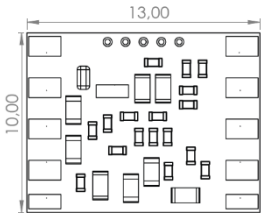
Digitally controlled remote strain gauge amplifier

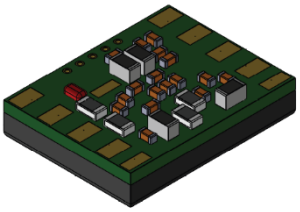
Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

Measurement features			
Bridge gauge impedance(1)		350 to 1000	Ω
Max recommended unbalance	350Ω gauge	2	mV
	1000Ω gauge	3.5	
Offset drift with temperature		<10	mV
Gain drift with temperature		<0.2	%
Bridge supply voltage		5	V
Analog output			
Output signal		0 to 5	V
Filter		1 pole filter	
Cut-off frequency at -3dB	Default	90	Hz
	On request	Up to 9000	
Digital communication The digital wire Tx/Rx enables to set the following parameters			
Offset		0 to 5	V
Gain		71 to 1270	-
Gain compensation		-2000 to 2000	ppm/°C
Electrical features			
Supply voltage(2)		5.5 to 16	V
Supply current (amplifier alone)		3.5	mA
Output impedance		100	Ω
Mechanical features			
Dimensions		13 x 10 x 3.6	mm
Material		PCB + Epoxy encapsulation	
Weight		1	g
Environment			
Accuracy temperature		-20 to +125	°C
Operating temperature		-40 to +125	°C
Storage temperature		-40 to +125	°C
Vibration test		20 Gpp 5'	
Shock		500	G

(1) For 120Ω gauge, please consider XN4-E reference.
(2) For higher supply voltage, please consider XN4-E reference.

Mechanical drawing





Ordering information

Ordering ref:

XN4– *Cut-off frequency at -3dB*

40: 40Hz
90: 90Hz (default)
190: 190Hz
9000: 9kHz
Other on request

ex: XN4-90