



## XN4-C

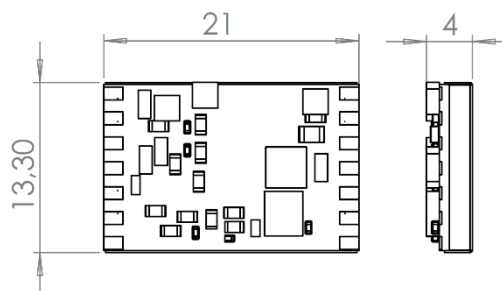
Digitally controlled remote strain gauge amplifier  
Analog and CAN bus output

Measurement features			
Bridge gauge impedance		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
Output impedance		100	Ω
Filter		1 pole filter	
Cut-off frequency at -3dB	Default	90	Hz
	On request	Up to 9000	
CAN output			
Sampling rate		1000	Hz
ODR (Output Data Rate)	Min	1	Hz
	Max	1000	
Resolution		1.22	mV
Output format		16 bits (signed integer)	
Range		-32768...+32767	
Digital communication			
The digital wire Tx/Rx enables to set the following parameters			
Amplifier Offset		0 to 5	V
Amplifier Gain		71 to 1270	-
Gain compensation		-2000 to 2000	ppm/°C
CAN output offset		-30000 to 30000	-
CAN output gain		-30000 to 30000	-
Electrical features			
Supply voltage		5.5 to 16	V
Supply current (amplifier alone)		25	mA

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.

Mechanical features		
Dimensions	21x13.3x4	mm
Material	PCB + Epoxy + stainless steel	
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

## Mechanical drawing



## Ordering information

### Ordering ref:

XN4-C– Cut-off frequency at -3dB

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

ex: XN4-C-90