

### APPLICATIONS

- > High accuracy displacement monitoring
- > High accuracy closed loop control

### KEY-FEATURES

- > Output:  $\pm 10V$  voltage
- > Accuracy 0.01%FS
- > 15kHz bandwidth
- > Up to 3 channels on a single board
- > Fully compatible with CTEC Strain Gauges and CTEC Powered Racks

### RELATED PRODUCTS

- > CTEC Strain Gauge Sensors
- > CTEC Powered Racks



### SPECIFICATIONS

PARAMETER	TYPICAL VALUE	UNIT
Number of channels	1 ... 3	
<b>Input</b>		
Sensor type	Full bridge, strain gauge-based, 4 wires	
Bridge impedance	350	$\Omega$
Bridge excitation (1)	5	V
Gain span (2)	116 ... 2700	
Input sensitivity span @ $V_b = 5V$ , FSO = $\pm 10V$ (3)	1.5 ... 34.5	mV/V
Input sensitivity span @ $V_b = 5V$ , FSO = $-1..+7.5V$	0.6 ... 14.7	mV/V
<b>Output</b>		
Typical output voltage (4)	$\pm 10$	V
Output current	$\pm 20$	mA
Output impedance	100	$\Omega$
DC offset span	$\pm 10$	V
Minimum output load	600	$\Omega$
Bandwidth - 3dB	15	kHz
<b>Accuracy</b>		
Resolution	0,01	% FS (3)
Linearity	0,01	% FS
Thermal offset drift	$\pm 0.025$	% FS/°C
Thermal gain drift (5)	$\pm (8.5E-5 * G + 2.1E-2)$	%/°C
Thermal gain drift @ $G = 500$	$\pm 0.06$	%/°C
Thermal gain drift @ $G = 1000$	$\pm 0.11$	%/°C
Common Mode Rejection	> 100	dB

## MISCELLANEOUS

PARAMETER	TYPICAL VALUE	UNIT
Mass	0,18	kg
Front face dimension	6F wide, 3U high	
Rack compatibility	Fully compatible with CTEC powered rack	
Operating temperature range	0 ... 40	°C
Storage temperature range	-10 ... 50	°C

## INTERFACES

Output connector	BNC type
Input sensor connector	LEMO EGG.00.304.CLL
DC Offset	10-turn screw potentiometer

## INCLUDED ACCESSORIES

Strain Gauge cable	Shielded 1.5m
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## OPTIONS

Strain Gauge cable	Specific length on request
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## ANNOTATIONS

- (1) Alternative voltage 2.5, 7.5, 10V available on request
- (2) Other values on request
- (3) FSO : Full Scale Output, FS : Full Scale
- (4) Set to [-1V ; 7.5V] on CTEC systems to be consistent with driver input
- (5) G : gain

## DRAWINGS

