



Main features

- Linearity error <math><0,02\%FSO</math>
- Voltage or current output
- Low thermal drift <math><0,01\%FSO/^{\circ}C</math>
- Compact size

The CIR voltage or current amplifiers have been designed to enable the user to adapt non-amplified strain gauge transducers (load cells, pressure transducers) to acquisition systems, PLC, instrumentation with high level inputs. The availability of the output in voltage or current enables the signal to be carried over long distances or used in intelligent automation systems.

TECHNICAL DATA

Model	Voltage B/C/M/N	Current E	meas. unit
Linearity error (FSO)	<math><0.02</math>	<math><0.02</math>	%
Primary sensor resistance ($\pm 10\%$)	350 or 700	350 or 700	Ω
Primary sensor sensitivity	2 or 3	2 or 3	mV/V
Output load resistance	> 10	see diag.	K Ω
Supply voltage	15...30	12...30	Vdc
Current drain with sensor connected	< 33	≤ 20	mA
Supply voltage to transducer	10	0,9	Vdc
Output signal at zero	B/C = 0,1Vdc M/N = 0Vdc	E = 4mA	
Zero signal accuracy (FSO)	<math>< \pm 0,1</math>	<math>< \pm 0,1</math>	%
Zero adjustment (FSO)	> ± 10	> ± 10	%
Full scale output	B = 5,1Vdc C = 10,1Vdc M = 5Vdc N = 10Vdc	E = 20mA	
F.S. output accuracy	<math>< \pm 0,1</math>	<math>< \pm 0,1</math>	%
Span adjustment	> ± 10	> ± 10	%
Inverse polarity protection	YES	YES	
Accidental shortcircuit protection	YES	YES	
Response time (10...90%FSO)	≈ 6	≈ 6	ms
Output noise (RMS10...400Hz)	-60	-60	db
Temp. range: (%FSO)	Compensated Working Storage	0...70 -10...+80 -50...+100	$^{\circ}C$ $^{\circ}C$ $^{\circ}C$
Typical thermal drift of zero (%FSO/ $^{\circ}C$)		$\pm 0,01$	
Typical thermal drift of span (%FSO/ $^{\circ}C$)		$\pm 0,01$	
Length of output cable		1	mt
Case material	Stainless steel / Anodized alum.		
Grade of protection	IP65	IP65	EN 60529
The electrical characteristics are those measured with Vsupply = 24VRL = 1M Ω (Voltage) RL = 500 Ω (Current) Amb.temp = 25 $^{\circ}C$			

MECHANICAL DIMENSIONS

