

GEFRAN

PCIR101 - PCIR102

SIGNAL CONDITIONER WITH VOLTAGE (101), CURRENT 4...20mA (102) OUTPUT FOR DISPLACEMENT TRANSDUCERS



Main features

- Interface module integrated in the connector
- Standard output 0...10Vdc (PCIR 101)
- Standard output 4...20mA (PCIR 102)
- High linearity
- Adjustable Zero and Span
- Low zero and span thermal drift
- 4 pole female DIN43650 connector for LTM and PKM potentiometer

The signal conditioner with 0...10Vdc (PCIR101) or 4...20mA (PCIR102) output for displacement transducers are manufactured with a single SMD circuit with high stability electronics components that grant a very good linearity and thermal stability. The circuit is integrated in a 4-pole connector, with the possibility to adjust the trimmers of zero and span. It is possible to rotate the internal part of the connector by 90° steps, allowing the installation of the conditioner on the transducer in four different directions.

TECHNICAL DATA

Model	PCIR101	PCIR102
Power supply	15...30Vdc	10...30Vdc
Max. current consumption	15mA	32mA
Output signal	0...10Vdc	4...20mA
ZERO adjustment range	±10% FSO	±10% FSO
SPAN adjustment range	±10% FSO	±10% FSO
Minimum load	10kOhm	see diagr.
Response time (10...90%FSO)	1 msec.	6 msec.
Output noise (RMS 10...400Hz)	<0,05%FSO	<0,05%FSO
Inverse polarity protection	YES	YES
Impulsive voltage peaks protect.	YES	YES
Zero and Span thermal drift in the compensated temp. range	<0,03% FSO/°C	<0,03% FSO/°C
Compensated temperat. range	-20...+80°C	-20...+80°C
Operating temperature range	-30...+85°C	-30...+85°C
Typical linearity error	0,01%FSO	0,01%FSO
Transducer supply	2,5Vdc ± 1%	1,65Vdc ± 1%
Transducer resistance	>700 Ohm	>700 Ohm
Input impedance	>10 MOhm	>10 MOhm
Protection degree	IP65	IP65
Connection cable diameter	0,5mm ²	0,5mm ²
Connection cable ø 4...10mm	3 wires with screen	2 wires with screen
Weight	80gr	80gr.

FSO: Full Scale Output (output signal at nominal pressure)

MECHANICAL DIMENSIONS

