Loop powered sensors

PCC421 series

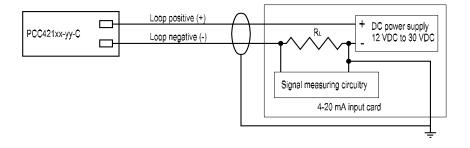


Table 1: PCC421xx-yy-C model selection guide

xx (4-20 mA output type)	yy (4-20 mA full scale)	C (output connector)
AR = acceleration, RMS AP = acceleration, peak	05 = 5 g (49 m/sec ²) 10 = 10 g (98 m/sec ²) 20 = 20 g (196 m/sec ²)	R6 = 2 pin, MIL-C-5015
VR = velocity, RMS VP = velocity, peak	05 = 0.5 ips (12.8 mm/sec) 10 = 1.0 ips (25.4 mm/sec) 20 = 2.0 ips (50.8 mm/sec) 50 = 5.0 ips (127 mm/sec)	M12-4 = 4 pin, M12



PCC421xx-yy-C wiring



Key features

- Choice of true RMS or calculated peak output (in acceleration or velocity units)
- Connector options: 2 pin MIL-C-5015 or 4 pin M12
- Integral cable option available (PCC423 models)
- Enables continuous trending of machine vibration
- Manufactured in an approved ISO 9001 facility

Certifications

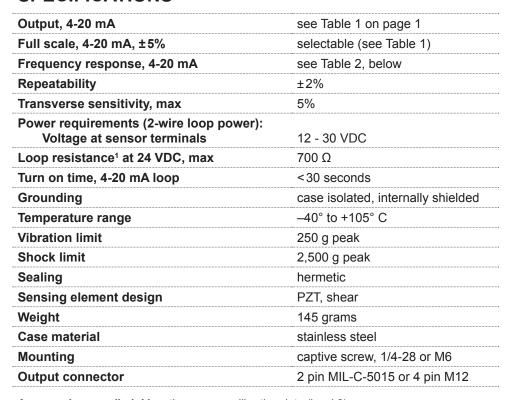


Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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Accessories supplied: Mounting screw; calibration data (level 2)

Notes: 1 Maximum loop resistance (R₁) can be calculated by: R₁ =

DC supply voltage	R _L (max resistance) ²	R _∟ (minimum wattage capability)³
12 VDC	100 Ω	1/8 watt
20 VDC	500 Ω	1/4 watt
24 VDC	700 Ω	1/2 watt
26 VDC	800 Ω	1/2 watt
30 VDC	1,000 Ω	1/2 watt

² Lower resistance is allowed, greater than 10 Ω recommended.

Table 2: PCC421 frequency response ±10% 10 Hz - 1 kHz Acceleration ±3 dB 1 Hz - 2 kHz ±10% 10 Hz - 1 kHz Velocity $\pm dB$ 3.5 Hz - 2 kHz

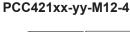
MIL-C-5015 pin ou	IL-C-5015 pin out (-R6 models)		
Function	Connector pin		
loop positive (+)	Α		
loop negative (–)	В		
ground	shell		

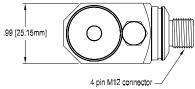
Tel: +1 (301) 330-8811

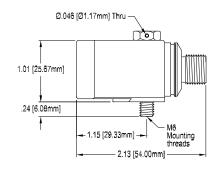
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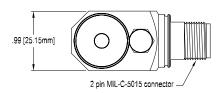
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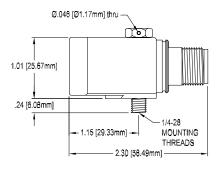






PCC421xx-yy-R6





M12 pin out (-M12-4	M12 pin out (-M12-4 models)		
Function	Connector pin		
loop positive (+)	1		
loop negative (–)	2		
N/C	3		
N/C	4		
ground	shell		

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³ Minimum R, wattage determined by: (0.0004 x R₁).