



## RMS and peak velocity loop powered sensors FM-LPS-420 Series

### Features

- RMS or peak output
- Compact housing for applications with height restrictions
- Easily integrated into existing process control systems
- Manufactured in an approved ISO 9001 facility

### ORDERING INFORMATION

FM-LPS-420-XX-X-W	
XX (Range)	X (Measurement unit)
10B = 0-10	R = RMS (mm/sec) P = peak (mm/sec)
20B = 0-20	
25B = 0-25	
50B = 0-50	

### SPECIFICATIONS

Output .....	4-20 mA DC proportional to RMS velocity (mm/s)
	4-20 mA DC proportional to peak velocity (mm/s) (optional)
Frequency response:	
$\pm 10\%$ .....	10 Hz - 1.0 kHz
$\pm 3$ dB .....	3.5 Hz - 2.0 kHz
Supply voltage .....	12-32 VDC
Grounding .....	Case isolated, internally shielded
Vibration limit .....	250 g peak
Shock limit .....	2500 g peak
Operating temperature .....	-40 to 105°C
Sealing .....	hermetic
Transverse sensitivity, max .....	5%
Case material .....	316L stainless steel
IP class .....	IP68
Weight .....	120 grams
Turn on time, 4-20 mA loop .....	30 seconds
Mounting hardware .....	1/4-28 UNF X M6 x 1
Output connector .....	2-pin MIL-C-5015
Accuracy .....	Full scale, 20 mA, $\pm 5\%$

### TYPICAL CONNECTIONS

Function	Connector pin
Loop positive (+)	A
Loop negative (-)	B

### MODEL CODES

Model	Description
FM-LPS-420-10B-R-W	Loop powered sensor with 10 mm/s RMS measurement range
FM-LPS-420-20B-R-W	Loop powered sensor with 20 mm/s RMS measurement range
FM-LPS-420-25B-R-W	Loop powered sensor with 25 mm/s RMS measurement range
FM-LPS-420-50B-R-W	Loop powered sensor with 50 mm/s RMS measurement range
FM-LPS-420-10B-P-W	Loop powered sensor with 10 mm/s peak measurement range
FM-LPS-420-20B-P-W	Loop powered sensor with 20 mm/s peak measurement range
FM-LPS-420-25B-P-W	Loop powered sensor with 25 mm/s peak measurement range
FM-LPS-420-50B-P-W	Loop powered sensor with 50 mm/s peak measurement range

