

Pressure Instrumentation

High Accuracy Programmable Pressure Sensor Part Number Key

PS 010V - 5 03 - LI2UPN 8 X - H1141

Pressure Sensor	Connection
Nominal Pressure Range	H1141 = 4-pin male, M12x1 (<i>euromast</i>) with LED
01VR = -1 to 0 bar gauge (-14.5 to 0 psi)	Operating Voltage
001R = 0 to 1 bar gauge (0 to 14.5 psi)	8 = 15(18)...30 VDC
001V = -1 to 1 bar gauge (-14.5 to 14.5 psi)	Electrical Output
003V = -1 to 2.5 bar gauge (-14.5 to 36 psi)	Output 1
010V = -1 to 10 bar gauge (-14.5 to 145 psi)	Output 2
016V = -1 to 16 bar gauge (-14.5 to 232 psi)	2UPN switching output switching output
025V = -1 to 25 bar gauge (-14.5 to 362 psi)	LUUPN switching output voltage output
040V = -1 to 40 bar gauge (-14.5 to 580 psi)	LI2UPN switching output current/switching output
100R = 0 to 100 bar gauge (0 to 1450 psi)	Pressure Connection
250R = 0 to 250 bar gauge (0 to 3625 psi)	01 = G1/4" female thread
400R = 0 to 400 bar gauge (0 to 5800 psi)	03 = 1/4"-18 NPT male thread
600R = 0 to 600 bar gauge (0 to 8700 psi)	04 = G1/4" male thread
001A = 0 to 1 bar absolute (0 to 14.5 psi)	05 = 7/16"-20 UNF male thread
003A = 0 to 2.5 bar absolute (0 to 36 psi)	Housing
010A = 0 to 10 bar absolute (0 to 145 psi)	5 = Rotatable
016A = 0 to 16 bar absolute (0 to 232 psi)	3 = IP69k
025A = 0 to 25 bar absolute (0 to 362 psi)	

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PS500 Pressure Sensor Specifications

Electrical	
Operating Voltage	18-30 VDC
Current Consumption	≤50 mA
Power-On Effect	Per IEC 947-5-2
Reverse Polarity Protection	Yes
Transient Protection	EN 60947-5-2
Short-Circuit Protection	Yes
EMC Information	
EN 61000-4-2	ESD: 4 KD CK/ 8 KV AD
EN 61000-4-3	HF irradiated: 15 V/m
EN 61000-4-4	Burst: 2 KV
EN 61000-4-5	Surge: 500 V, 12 Ω
EN 61000-4-6	HF conducted: 10 V
Environmental	
Ambient Temperature	-40°to +80°C (-40°to +176°F)
Medium Temperature	-25°to +85°C (-40°to +185°F)
Enclosure Rating	Meets NEMA 4, 6, 12, 13 and IP67
Shock	50 g per IEC 68-2-27
Vibration	20 g (10-200 Hz) per IEC 68-2-6
Burst Protection	patented media stop
Materials	
Housing	Stainless Steel 303
Wetted Parts	Stainless Steel 303, Viton, Al ₂ O ₃ Ceramic
Operational	
Output	Programmable Current: . 0-20 mA, 4-20 mA, . 20-0 mA, 20-4 mA and . 1 PNP/NPN N.O./N.C. Or . 2 PNP/NPN N.O./N.C.
Switching Frequency (Discrete)	≤180 Hz
Switching Current	≤200 mA
Analog Load	≤500 Ω

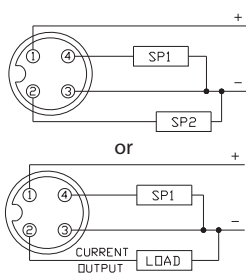
Operational continued	
Accuracy	
Set Point Accuracy	±0.5% of Full Scale
Analog Accuracy**	≤±0.5% of Full Scale
Repeatability	≤0.5% of measuring range
Zero Shift/Span Shift	≤0.15% of measuring range/°C
Programmable Analog	
Analog Start Point	Programmable from 0-75% of measuring range
Analog End Point	Programmable from 25-100% of measuring range
Set Points	
Set Point Range	1% - 100% Range
Reset Point Range	.5% - 99.5% Range
Minimum Hysteresis	±0.5% of Full Scale
Switching Delay	Switch-on and switch-off delay adjustable from 0 to 50 seconds in steps of 0.1 second
LED Function/Display	
Measuring Value	4-digit 7-segment display
Programming Status Display	LEDs indicate output status, measuring units
Display Reaction Time	Slow 600 ms update Normal 200 ms update Fast 50 ms update

** Accuracy includes linearity, repeatability and hysteresis.

PRESSURE

Wiring Diagram

Wiring Diagram



Mating Cordset:
RK 4.4T-*

Drawings

