ColliHigh Automation

Model JYB-KM

Mini and Low Cost Diffused Silicon Pressure Transmitter

DESCRIPTION

Model JYB-K M is a cost efficient general purpose gage-only diffused Silicon pressure transmitter. Each unit is constructed of welded stainless steel for durability in dry rugged environments. Both gas and liquid pressure overloads of up to 50% over capacity are safely accepted. The transmitter uses our proprietary current output with digital compensation. This design references the primary pressure sensing diaphragm to the atmosphere, and provides a stable zero regardless of the transducer environment.

FEATURES

- 0.0015 % FS/°F temperature effect
- 0.2%, 0.5 % or 1.0% accuracy
- 0.35 to 100 Bar range
- True gage or absolute
- 4 to 20 mA output / 0~5VDC output
- Isolated double wall construction
- Enhanced temperature stability,
- ROHS and CE Certification

PRESSURE MEASUREMENT

Supply Voltage	18 to 30VDC or +4.5 to 5.0VDC
Operating Range	Any zero based full scale from 0.35 Bar to 100Bar
Over Pressure	Three times for the full scale
Output Signal	Current two-wire 4-20mA (<500Ω); 0~5VDC 0r 0.5~4.5VDC(>10KΩ)
Pressure Media	Fluids compatible with 316 stainless steel and Hastelloy C276 (NACE compatible grades)

PERFORMANCE SPECIFICATIONS

Accuracy	±0.2%, ±0.5%, ±1.0% (25℃)
Pressure Response	<200ms
Long Term Stability	<0.1% FS per year
Temperature Range	Compensation form 0 to 60℃ Working from -20 to 85℃
Temperature Effects	Max 1.0% FS typical over 0 to 60℃ Max 2.0% FS typical over -20 to 85℃

PHYSICAL CONNECTION

Pressure Connection	G1/4 female with Option B screw-in adaptor
Electrical Connection	M12×1 Bayonet plug (IP67) DIN43650 Plug/Socket (IP65)

ORDERING CODES

JYB-KM	JYB-KBM is a safety model for Exib II BT4								
	I1	Current two-wire 4 ma to 20 ma							
	V1	0 ~ 5VDC							
	V2	0.5 ~ 4.5VDC (+5VDC supply)							
		M1	M12×1 Bayonet plug (IP67)						
		M2	DIN43650 Plug/Socket (IP65)						
			N1	M20x1.5 female screw-in adap					
			N2	G1/4 female with Option adaptor					
				S3	0-0.35Bar				
				S4	0-1 Bar				
				S5	0-2 Bar				
				S6	0-6 Bar				
				S7	0-10 Bar				
				S8	0-16 Bar				
				S9	0-20 Bar				
				S10	0-40 Bar				
				S11	0-100 Bar				
						B1	Gauge		
						B2	Absolute		
								A1	±0.2%
								A2	±0.5%
								A3	±1.0%

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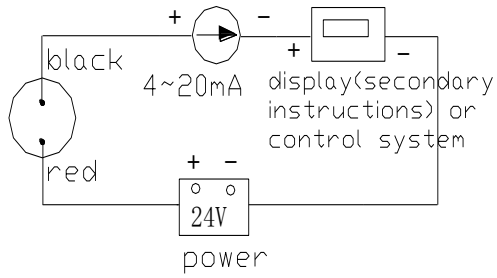
ELECTRICAL CONNECTION

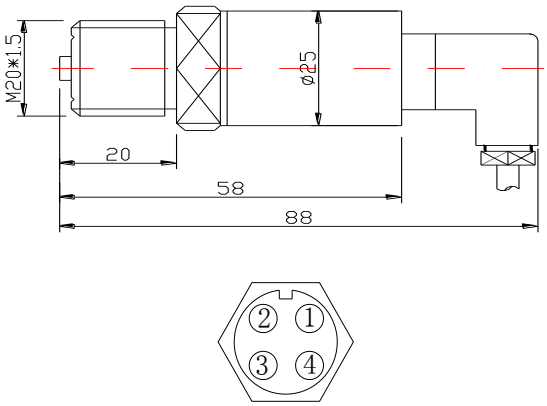
Code	1(Red)	2(Yellow)	3(Blue)	4(Black)
I1	+supply	NC	Shell	-supply
V1/2	+supply	output	Shell	-supply

• *Current two-wire 4ma to 20mA*

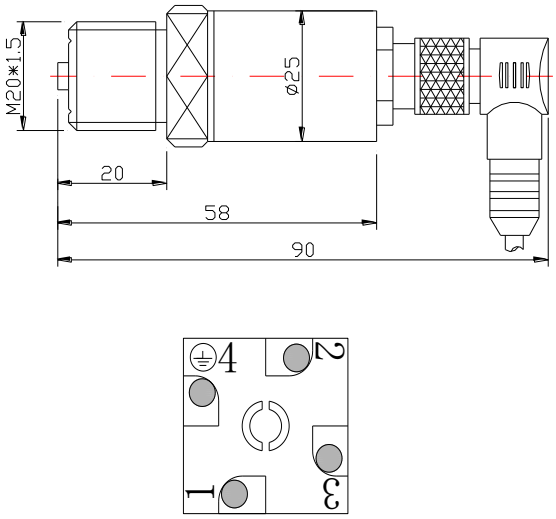


MOUNTING DIMENSION

• M12 ×1 Bayonet plug (IP67)



• DIN43650 Plug/Socket (IP65)



NOTES

1• Because the sensor belongs to the precision component, in order to prevent damages of the product, don't disassemble voluntarily and touch a film slice, please.

2• When make a survey of high-pressure, must install buffer equipment in the exit of the connection between the sensor and the medium, which can avoid the momentary pulse high-pressure and the damages of sensors.

3• Accuracies stated are expected for best fit straight line for all errors including linearity, hysteresis & non-repeatability thru zero.

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