

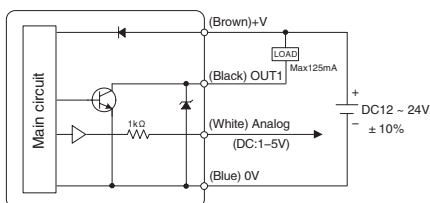
Specifications

Description		Unit	MPS-V34	MPS-P34	MPS-R34
Fluid			Air (non corrosive, nonflammable gas)		
Diaphragm			Silicon diaphragm		
Pressure range		kPa	-101.3 ~ 0kPa	-0.1 ~ 1MPa	-101 ~ 500kPa
Proof pressure		MPa	0.3	1.5	0.8
Operating ambient temperature		°C	0 ~ 50		
Operating humidity		%	35 ~ 85 RH (without condensation)		
Port size			R1/8 (male), NPT1/8 (male), G1/8 (male) Inlet port size M5(female)		
Power supply		V	DC12 ~ 24 ± 10% , Ripple (Vp-p) less than 10%		
Power consumption		mA	less than 45		
Switch output	type		NPN or PNP open collector 1 output		
	Current load	mA	max.125mA		
Analog output (Option)	Voltage output	V	DC1 ~ 5 (±2.5%), linearity less than ± 1% of F.S., output impedance 1kΩ 4 ~ 20 ± 2.5%, linearity less than ± 1% of F.S		
	Current output	mA	Maximum load impedance 300Ω (at 12V power), 600Ω (at 24V power) Minimum load impedance 50Ω		
Repeatability		%	± 0.2 F.S., 1digit or less		
Temperature characteristic			Less than ± 2% of F.S.(At standard temperature 25°C , range 0 ~ 50°C)		
Response time		ms	Less than 2.5(Variable 24, 250, 500, 1000, 1500 options)		
Hysteresis			Variable		
Display	Digital display		3 1/2 digits 7 segments, 2 colors (Red/Green) LCD		
	Operation		LCD (Green when ON)		
Resolution			0.1kPa	0.01MPa	1kPa
Protection structure			IP40		
Vibration resistance			10 ~ 55Hz, total amplitude 1.5mm (2 hours in direction of XYZ)		
Shock resistance		m/s ²	100 (3 times in direction of XYZ)		
Voltage resistance			AC1000V 1 minute (Between lead and case)		
Electrical connection			Grommet or M8 connector		
Cable	Grommet		φ 4 0.15mm ² 4 lead wires 2m		
	M8 connector		φ 4 0.15mm ² 4 lead wires 100mm (M8 4PIN with male connecto)		
Fittings			L3, F3 fittings		
Mass	Grommet	g	75 (45with lead wire)		
	M8 connector		45 (with connector and lead wire)		

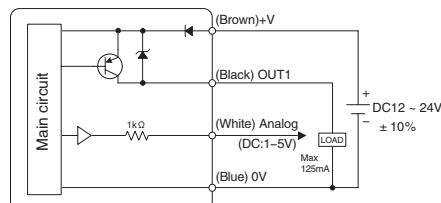
Note 1) Analog output of positive pressure type (P) in range of pressure 0 to 1 Mpa can output DC1-5V and 4-20mA. In range of pressure -0.1 to 0 MPa it does not output.
 Note 2) Current output type is available for Vacuum type (V) and Positive pressure type (P) only.

Internal circuit

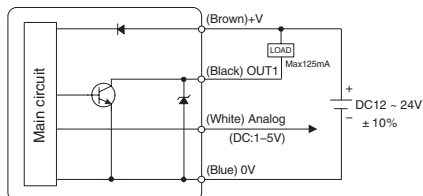
NPN output (Analog voltage output)



PNP output (Analog voltage output)



NPN output (Analog current output)



PNP output (Analog current output)

