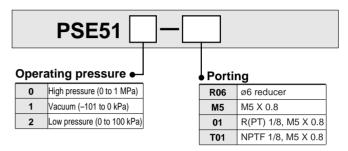
Pressure Sensor For General Pneumatic Applications Series PSE 510



How to Order



Sensor Specifications/General Pneumatic Applications

Model		PSE510-□	PSE511-□	PSE512-□	
Operating pressure range		0 to 1 MPa	-101 to 0kPa	0 to 100kPa	
Max. pressure		1MPa	200kPa		
Fluid		Air, Non corrosive gases			
Output specification		Analog (1 to 5V, Load impedance: $10k\Omega$ or more)			
Supply voltage		12 to 24V DC (Ripple \pm 10% or less)			
Current consumption		10mA or less			
Operating temperature range		0 to 50°C (No condensation)			
Temperature characteristics (25°C standard)	$25 \pm 10^{\circ}$ C	± 1%F.S. or less			
	0 to 50°C	± 1.5% F.S. or less			
Repeatability		\pm 0.3% F.S. or less			
Voltage resistance		Between external terminal and housing 1000V AC, 50/60Hz for 1 min.			
Insulation resistance		Between external terminal and housing 2M Ω (500V DC by megameter)			
Vibration resistance		10 to 500Hz Pulse width: 1.5mm or acceleration 98 m/s ² (at the smaller vibration) to X, Y, Z direction (2 hours)			
Shock resistance		980 m/ _{S²} to X, Y, Z direction (3 times for each direction)			
Protective construction		IP40			

Note) When pressure sensor PSE510 series is connected to controller PSE100 series, display range is as series PSE100.

Process Connection

Model		R06	M5	01	T01	
Material	Housing	Resin housing: PBT	Resin housing: PBT Fitting: Stainless steel (SUS303)	Resin housing: PBT Fitting: C3604BD (Electroless nickel plated)	Resin housing: PBT Fitting: C3604BD (Electroless nickel plated)	
	Pressure sensor area	Pressure sensor: Silicon, O ring: NBR				
Lead wire		Oil proof vinyl insulation ø2.55, 0.15mm ² X 3 wire (Brown, Blue, Black) 3000mm				
Port size		ø6 reducer	M5 X 0.8	R(PT) 1/8, M5 X 0.8	NPTF1/8, M5 X 0.8	
Weight (Excluding lead wire)		Approx. 7g	Approx. 10g	Approx. 12g		

PSE ZSE4 ISE4

ZSE5

ISE5 ZSE6 ISE6

ZSE3 ISE3

PS

ISA

ZSE1 ISE1 ZSE2

ISE2

IS□

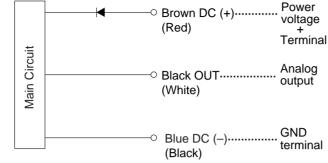
ZSM

PF

IF

Internal Circuit

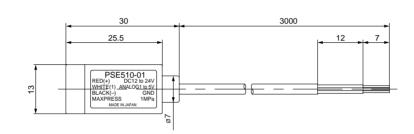
Lead wire colors inside () are those prior to conformity with IEC standards.



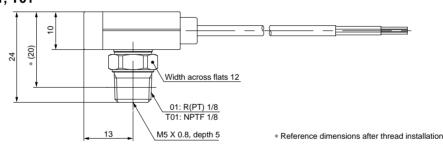
ACaution

Be sure to read before handling. Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalog, and refer to p.3.0-7 to 3.0-9 for precautions on every series.

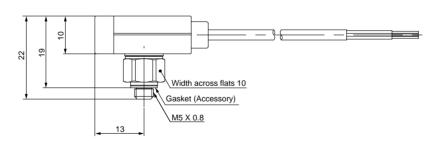
Dimensions



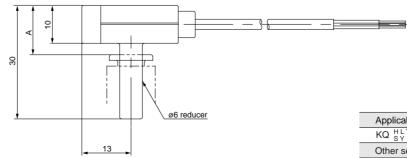
01, T01



M5



R06



Applicable fitting	A
KQ ^{HLT} 06-M5	16
Other series KQ, KS	13
KJ Series	14.5
KJ (-X20) Series	16