

Pressure Sensors

Type **NSK**

FEATURES











- High accuracy:
accuracy of $\pm 1.0\%$ FS across a wide temperature range.
- Suitable for various applications:
current and various voltage outputs, a wide fluid temperature range, a variety of fittings.
- The current output type supports wiring up to 328 ft [100 m].
- Conforms to international regulations, such as RoHS regulations.
- Complies with various standards. (UL/c-UL, CE(ATEX), CQC)



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SPECIFICATIONS

* Scheduled for release in May 2025.

Specifications	NSK					
	Ratiometric Voltage Output		Voltage Output*		Current Output*	
Fluids	R448A, R449A, R32, R454B, R454C, R1234yf, R290, Water, etc.					
Output /Supply Voltage	Output	Supply Voltage	Output	Supply Voltage	Output	Supply Voltage
	0.5 to 4.5V.DC 0.5 to 3.5V.DC	5±0.25V.DC	0 to 5V.DC	7 to 35V.DC	4 to 20mA	7 to 35V.DC
			0 to 10V.DC	11.5 to 35V.DC		
			1 to 5V.DC	7 to 35V.DC		
			1 to 6V.DC	8 to 35V.DC		
Pressure Range* ¹	0 to 1.0 MPa 0 to 2.0 MPa 0 to 3.0 MPa 0 to 3.5 MPa 0 to 5.0 MPa (PSI unit is also available.)		-0.1 to 0.7 MPa -0.1 to 2.0 MPa -0.1 to 1.0 MPa 0 to 3.0 MPa 0 to 5.0 MPa (PSI unit is also available.)			
Ambient Temp.	-22 to 212°F [-30 to 100°C]		-40 to 212°F [-40 to 100°C]			
Fluid Temp.	-40 to 248°F [-40 to 120°C]		-40 to 275°F [-40 to 135°C]			
Accuracy	±1.5% FS (-4 to 248°F [-20 to 120°C]) ±1.0% FS (-22 to 185°F [-30 to 85°C]) ±1.0% FS (-4 to 212°F [-20 to 100°C])		±1.0%FS (-40 to 212°F [-40 to 100°C])			
Wiring	Up to 9.84ft [3m]			Up to 328ft [100m]		
Standards* ²	UL/c-UL, CE (ATEX), CQC					
Electrical Connector	Molded cable	Aptiv, Molex	Aptiv			
Connection* ³	1/4" Female Flare		1/4" Male Flare	R 1/8"	1/4" Female Flare	1/4" Female Flare (w/Schrader Depressor)
						
	1/4" Copper Solder (D.0.12 inch [3mm])		NPT 1/8"	NPT 1/4"	1/4" Copper Solder (D.0.12 inch [3mm])* ⁴	1/4" Copper Solder (D.0.28 inch [7mm])* ⁴
						

*1 NSK is a shield gauge pressure type. One atmosphere (1013 hPa) is considered as 0 psi [0 MPa].

*2 Some standards are currently under application. Please contact us for details.

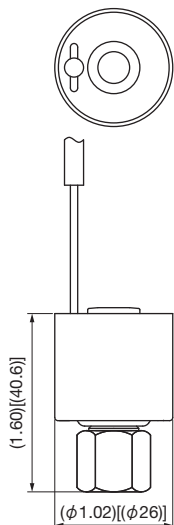
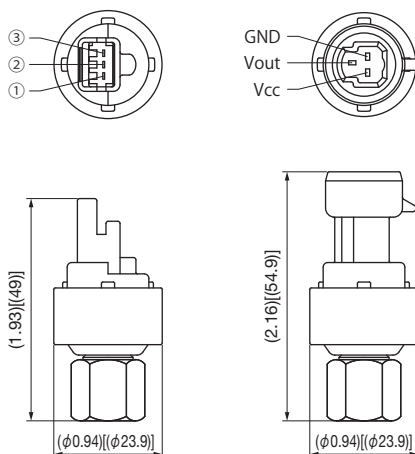
*3 The material of the connections has two options (except for copper solders): stainless steel and brass.

*4 Except for Molex connector type.

● For other specifications, such as different pressure ranges, please contact us.

DIMENSIONS

Ratiometric Voltage Output



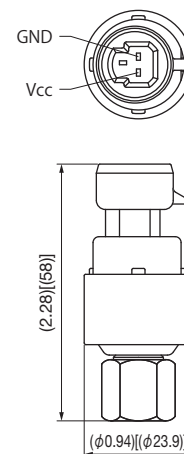
【Pin Assignment】

- ① Vcc
- ② Vout
- ③ GND

【Connector】

- MOLEX
52117-0340
- Aptiv
12065287

Voltage/Current Output



【Connector】

- Aptiv
12065287

Unit: inch [mm]



NOTES FOR SAFETY

Failure to read and follow all instruction carefully before installing or operating the product could cause personal injury and/or property damage.

Specifications are subject to change without notice.

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