

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 100 meters.
- 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 1.0MPa 0 to 2.0MPa 0 to 3.0MPa 0 to 3.5MPa 0 to 5.0MPa (PSI unit is also available.)		-0.1 to 0.7MPa -0.1 to 2.0MPa -0.1 to 1.0MPa 0 to 3.0MPa 0 to 5.0MPa (PSI unit is also available.)			
Ambient Temp.	-30 to 100℃		-40 to 100℃			
Fluid Temp.	-40 to 120℃		-40 to 135℃			
Accuracy	±1.5% FS (-20 to 120℃) ±1.0% FS (-30 to 85℃) ±1.0% FS (-20 to 100℃)		±1.0%FS (-40 to 100℃)			
Wiring	Up to 3m				Up to 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.3mm)		NPT 1/8"	NPT 1/4"	1/4" Copper Solder (D.3mm)*4	1/4" Copper Solder (D.7mm)*4
						

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

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

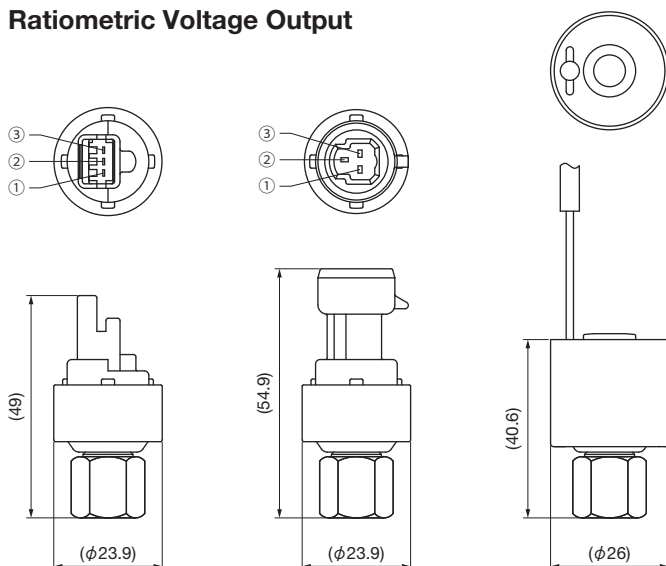
*3 The material of the connections has two options (except for copper solders): stainless steel and brass.

*4 Except for Molex connector type.

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

DIMENSIONS

Ratiometric Voltage Output



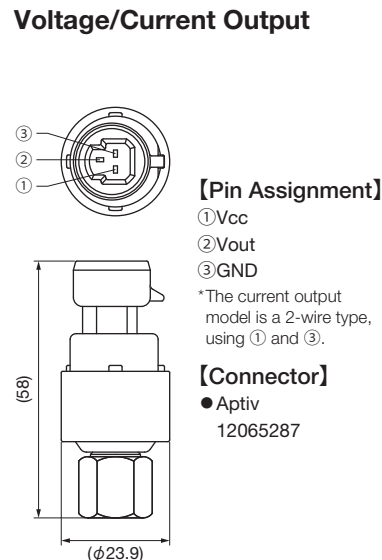
【Pin Assignment】

- ① Vcc
- ② Vout
- ③ GND

【Connector】

- MOLEX
52117-0340
- Aptiv
12065287

Voltage/Current Output



【Pin Assignment】

- ① Vcc
- ② Vout
- ③ GND

*The current output model is a 2-wire type, using ① and ③.

【Connector】

- Aptiv
12065287



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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