

Pressure Sensors for CO₂ Refrigerant

Type **HSK**

FEATURES

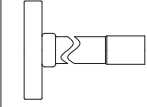
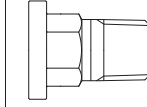
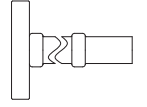
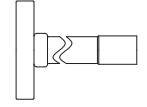
- Compatible with R744 (CO₂).
- High accuracy:
accuracy of $\pm 1.0\%$ FS across a wide temperature range.
- Suitable for various applications:
current and voltage outputs, a wide fluid temperature range,
a variety of fittings.
- The current output type supports wiring up to 328 ft [100 m].
- Conforms to international regulations, such as RoHS regulations.
- Complies with various standards. (UL/c-UL, CE, CQC)



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SPECIFICATIONS

* Scheduled for release in May 2025.

Specifications	HSK		
	Ratiometric Voltage Output		Current Output*
Fluids	R744 (CO ₂)		
Output	0.5 to 4.5V.DC		4 to 20mA
Supply Voltage	5±0.25V.DC		7 to 35V.DC
Airtight Test Press.	2175 psi [15 MPa]		
Pressure Range*1	0 to 870 psi [0 to 6.0 MPa] 0 to 1450 psi [0 to 10.0 MPa] 0 to 2175 psi [0 to 15.0 MPa]		
Ambient Temp.	-22 to 185°F [-30 to 85°C]	-22 to 212°F [-30 to 100°C]	-40 to 212°F [-40 to 10°C]
Fluid Temp.	-22 to 248°F [-30 to 120°C]		-40 to 275°F [-40 to 135°C]
Accuracy	±1.0%FS (-4 to 248°F [-20 to 120°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 (Aptiv connector only), CE, CQC		
Electrical Connector	Molded cable		Aptiv, Molex
Connection	1/4" Copper Solder (D.0.33 inch [8.5mm]) 		NPT 1/4" (Stainless Steel) 
	φ 6mm Copper Solder (D.0.41 inch [10.5mm]) 		1/4" Copper Solder (D.0.33 inch [8.5mm]) 

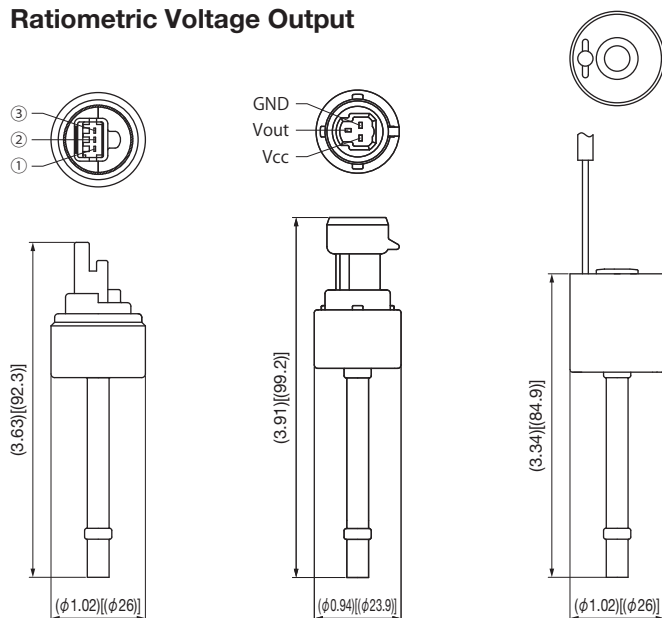
*1 HSK is a shield gauge pressure type. One atmosphere (1013 hPa) is considered as 0 psi [0 MPa].

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

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

DIMENSIONS

Ratiometric Voltage Output



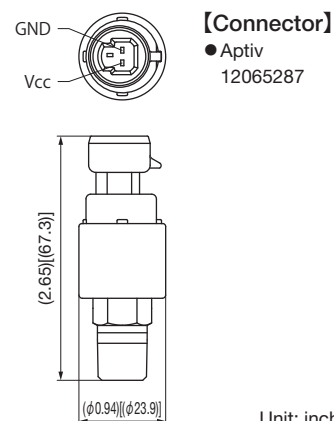
【Pin Assignment】

- ① Vcc
- ② Vout
- ③ GND

【Connector】

- MOLEX
52117-0340
- Aptiv
12065287

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.