

## Pressure Sensors for CO<sub>2</sub> Refrigerant

Type **HSK**

### FEATURES

- Compatible with R744 (CO<sub>2</sub>).
- 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 <sub>2</sub> )										
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	Molded cable		Aptiv								
	<table border="1"> <thead> <tr> <th>1/4" Copper Solder (D.0.33 inch [8.5mm])</th> <th>φ 6mm Copper Solder (D.0.41 inch [10.5mm])</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	1/4" Copper Solder (D.0.33 inch [8.5mm])	φ 6mm Copper Solder (D.0.41 inch [10.5mm])			<table border="1"> <thead> <tr> <th>NPT 1/4" (Stainless Steel)</th> <th>1/4" Copper Solder (D.0.33 inch [8.5mm])</th> <th>φ 6mm Copper Solder (D.0.41 inch [10.5mm])</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NPT 1/4" (Stainless Steel)	1/4" Copper Solder (D.0.33 inch [8.5mm])	φ 6mm Copper Solder (D.0.41 inch [10.5mm])		
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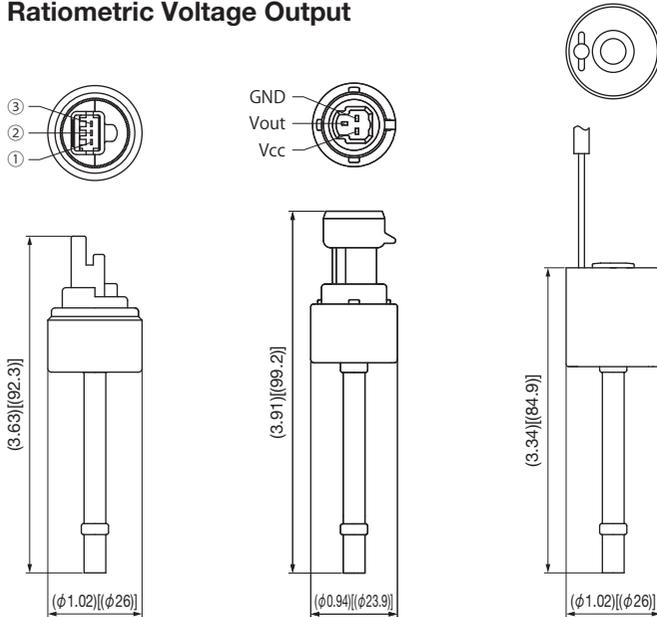
\*1 HSK is a shield gauge pressure type. One atmosphere (1013 hPa) is considered as 0 psi [0 MPa].

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

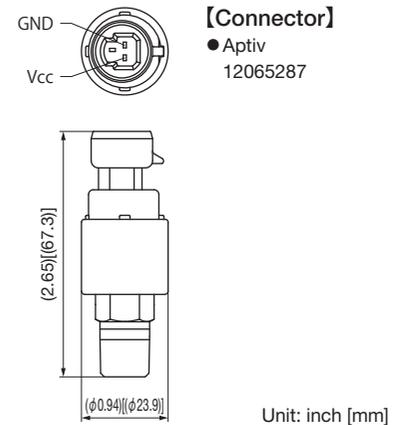
● For other specifications, such as different pressure ranges, please contact us.

## DIMENSIONS

### Ratiometric Voltage Output



### Current Output



### 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.