

## 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 100 meters.
- 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 2025

Specifications	HSK		
	Ratiometric Voltage Output		Current Output *
Fluids	R744 (CO <sub>2</sub> )		
Output	DC0.5 to 4.5V		4 to 20mA
Supply Voltage	DC5±0.25V		DC7 to 35V
Airtight Test Press.	15MPa		
Pressure Range*1	0 to 6.0MPa 0 to 10.0MPa 0 to 15.0MPa		
Ambient Temp.	-30 to 85°C	-30 to 100°C	-40 to 100°C
Fluid Temp.	-30 to 120°C		-40 to 135°C
Accuracy	±1.0%FS (-20 to 120°C)		±1.0%FS (-40 to 100°C)
Wiring	Up to 3m		Up to 100m
Standards*2	UL/c-UL (Aptiv connector only), CE, CQC		
Electrical Connector	Molded cable		Aptiv, Molex
Connection	Molded cable		Aptiv, Molex
	1/4" Copper Solder (D.8.5mm)	φ6mm Copper Solder (D.10.5mm)	NPT 1/4" (Stainless Steel)
			1/4" Copper Solder (D.8.5mm)
			φ6mm Copper Solder (D.10.5mm)

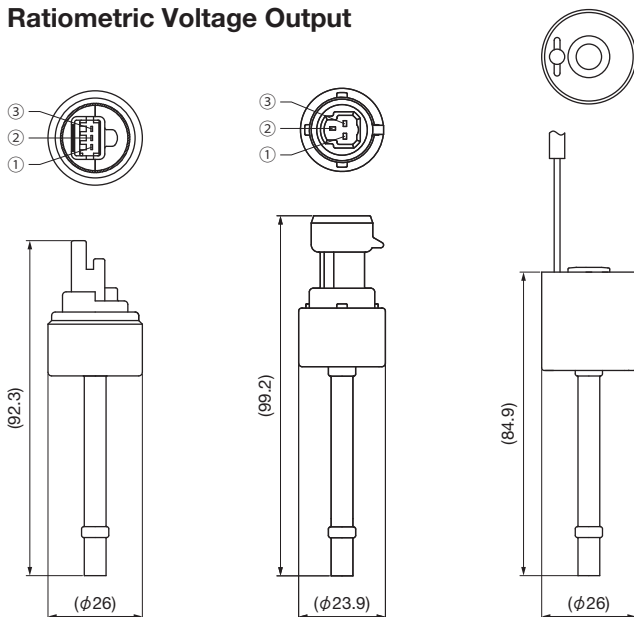
\*1 HSK is a shield gauge pressure type. One atmosphere (1013 hPa) is considered as 0 MPa.

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

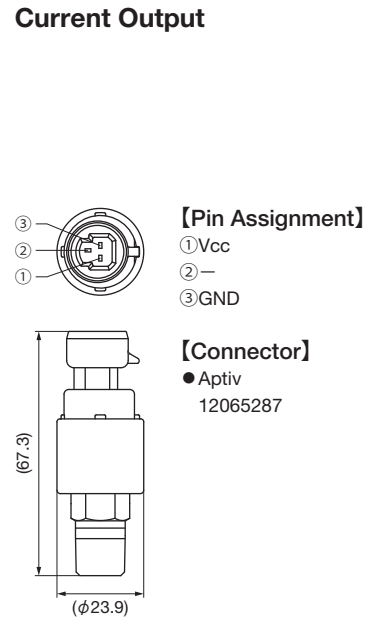
● For other specifications, such as different pressure ranges, please contact us.

## DIMENSIONS

### Ratiometric Voltage Output



### Current Output



#### 【Pin Assignment】

- ① Vcc
- ② Vout
- ③ GND

#### 【Connector】

- MOLEX  
52117-0340
- Aptiv  
12065287

#### 【Pin Assignment】

- ① Vcc
- ② -
- ③ GND

#### 【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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