

# Model 664F(type c) Semi-Flush Diaphragm OEM Pressure Sensors

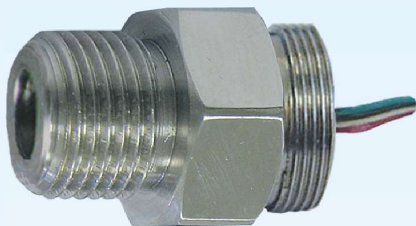


664F(type c) OEM pressure sensors are made from alloy steel or stainless steel in small dimensions, the sensors possess a flush diaphragm which at the bottom of cylinder facing the pressure media, able to measure pressures of gases, and diluted liquids, if installed the sensor horizontally or some sloped down, the sensor can be used to measure the viscous fluids or fluids with small grains. Because of its openly cylinder cavity on the front of sensor, the sensors can be used in non- food and beverage industries for pressure media in melt state (or very thick pressure media).

Based on BCM advanced metal foil strain gauge technology, the sensing elements of these 664F(type c) OEM pressure sensors are BCM strain gauges, these strain gauges form a Wheatstone bridge on back of the diaphragm to sensing the deformation of the diaphragm, this deformation results from the pressure which act vertically to the diaphragm.

Model 664F(type c) OEM pressure sensors are mostly used as gauge pressure type to integrate transducers and transmitters, the sensors feature a wide measuring range from 0~16 bar to 0~1000 bar, with an accuracy up to 0.25%fso (fso = full scale output). Though the compensated temperature range is -10 ~ +60°C, the sensors can be used in the temperature range of -20 to 125°C.

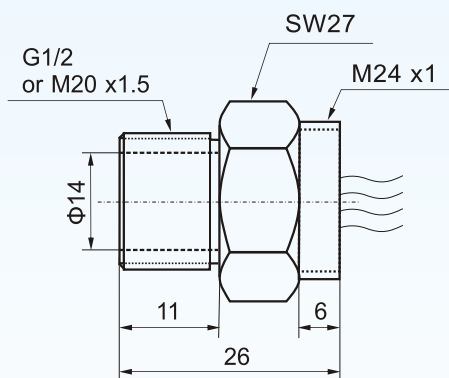
Output signal of 664F(type c) is wheatstone bridge output signal in millivoltage, for connecting of both the output signal and electric excitation of the bridge, the electrical cable is fixed along the vertical direction of the diaphragm. The front male thread for pressure port is G1/2 or M20x1.5, while the rear male thread for housing connection is M24 x1.



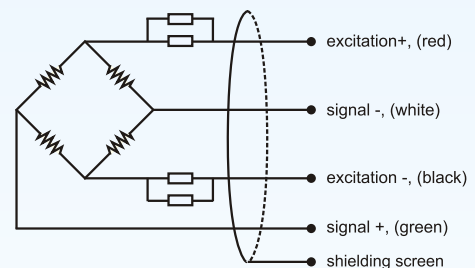
## Features:

- pressure ranges: 0~16, ..., 0~1000 bar
- output signal: wheatstone bridge output signal;
- measuring accuracy: 0.25 %fso, 0.5 %fso
- compensated temperature ranges: -10 ~ +60°C
- materials: alloy steel, option: 316L, 316 SS
- construction: integrated construction, rigid and robust
- housing protection: IP 65

## Dimensions:



## Electrical connection:



**BCM SENSOR TECHNOLOGIES BVBA**

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## Specifications:

pressure media		gases, dilute liquids, viscous liquids, compatible to wetted parts
measuring ranges & type	barG	0~16, 0~25, 0~40, 0~65, 0~100, 0~160, 0~250, 0~400, 0~650, ~1000
overload pressure	%fso	150
output signal	mV/V	1 (range 0~16 bar), 1.5 (ranges: ≤ 0~25 bar), 2 (other ranges)
combined error	%fso	0.25, 0.5 (standard)
zero offset	%fso	±1
input & output resistance	Ω	350±10% (standatd); 1000±10%
insulation resistance	Ω	> 500 @ 100 Vdc
supply voltage	V	10V (max. 12V)
temperature coefficient of ZERO	%fso/10°C	0.5
temperature coefficient of SPAN	%fso/10°C	0.5
long-term stability	%fso/year	< 0.2
compensated temperature range	°C	-10 ~ +60
operating temperature range	°C	-20 ~ +125
process connection	external thread	G1/2 (standard), M20 x 1.5
electrical connection	cable	0.1 m length, Φ0.8 mm, 4-wire shielded PVC

The listed specifications are subject to change without prior notice.

**How to order:** model - range - output - accuracy - process connection - materials - customer specific requests  
**ordering code** example: 664F(c) - 0~40 bar - 2mV/V - 0.5%fso - G1/2 - 316L - no specific requests

**BCM SENSOR TECHNOLOGIES BVBA**

Industriepark, Brechtsebaan 2  
B-2900 Schoten - Antwerpen, BELGIUM

Tel.: +32-3-238 6469  
Fax: +32-3-238 4171

website: [www.bcmsensor.com](http://www.bcmsensor.com)  
email: [sales@bcmsensor.com](mailto:sales@bcmsensor.com)