Model 664F(b) Flush Diaphragm OEM Pressure Sensors



Model 664F(b) OEM pressure sensors are made from 316L stainless steel in small dimensions, the sensors possess a flush diaphragm facing the pressure media, able to measure pressures of viscous fluid, or fluid with grains. Because of its flush diaphragm on the front of sensor, the sensors are specially used in food- and beverage-industries, or application for pressure media in melt state (or very thick pressure media). The construction of 664F(b) pressure sensors is rigid and robust. They are suitable for application in harsh environment.

Based on BCM advanced metal foil strain gauge technology, the sensing elements of these 664F(b) 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(b) OEM pressure sensors are mostly used as gauge pressure type to integrate transducers and transmitters, the sensors feature a wide measuring range from $0\sim16$ bar to $0\sim1000$ bar, with an accuracy of 0.25% fso (fso = full scale output). Though the compensated temperature range is $-10 \sim +60^{\circ}$ C, the sensors can be used in the temperature range of -20 to 125°C.

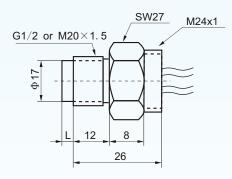
Output signal of 664F(b) is wheatstone bridge output signal in millivoltage. For connecting of both the output signal and electric excitation of the bridge, the electrical cable is fixed along the vertical direction of the diaphragm, which makes it easy to be installed or replaced, the front male thread for pressure port is standard G1/2", and the rear male thread is made to M24x1 for housing connections.



Features:

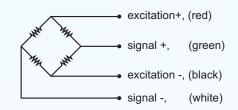
- pressure ranges: 0~16, ..., 0~1000 bar
- output signal: wheatstone bridge output signal;
- measuring accuracy: 0.25 %fso, 0.5 %fso
- compensated temperature ranges: -10 ~ +60°C
- materials: alloy steel, option: 316L, 316 SS
- · construction: integrated construction, rigid and robust
- housing protection: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

Dimensions:



pressure ranges	L
\leq 0 $^{\sim}$ 100 barG	5
$> 0^{\sim}100; \le 0^{\sim}600 \text{ barG}$	6
$> 0^{\circ}600; \le 0^{\circ}1000 \text{ barG}$	7
>1000 barG	8.5

Electrical connection:



BCM SENSOR TECHNOLOGIES BVBA

Industriepark Zone 4, Brechtsebaan 2 B-2900 Schoten - Antwerpen, BELGIUM Tel.: +32-3-238 6469 Fax: +32-3-238 4171 website: www.bcmsensor.com email: sales@bcmsensor.com



Specifications:

parameters	units	specifications
pressure media		viscous fluid, or fluid with grains, compatible to wetted parts
measuring ranges & type	barG	0~16, ~20, ~25, ~40, ~65, ~100, ~160, ~250, ~400, ~650, ~1000
overload pressure	%fso	150
output signal	mV/V	1 (range 0~16 bar), 1.5 (range 0~20 bar), 2 (other ranges)
combined error	%fso	0.25, 0.5 (standard)
zero offset	%fso	±1
input & output impedance	Ω	350±10%, 550±10% (standatd); 1000±10%
insulation resistance	Ω	> 500 @ 100 Vdc
supply voltage	V	10V (max. 12V)
temperature coefficient of ZERO	%fso/°C	± 0.005
temperature coefficient of SPAN	%fso/°C	± 0.005
long-term stability	%fso/year	± 0.2
compensated temperature range	°C	-10 ~ +60
operating temperature range	°C	-20 ~ +85
process connection	external thread	G1/2(standard), M20x1.5
electrical connection	cable	0.1 m length, 4-wire, shielded PVC

The listed specifications are subject to change without prior notice.

How to order: model - range - output - accuracy - process connection - material - input&output resistance - customized requests (if any)

ordering code example: 664F(b) - 0/40 bar - 2mV/V - 0.5%fso - G1/2 - 316L - 350Ω



BCM SENSOR TECHNOLOGIES BVBA

Industriepark Zone 4, Brechtsebaan 2 B-2900 Schoten - Antwerpen, BELGIUM

Tel.: +32-3-238 6469 Fax: +32-3-238 4171 website: www.bcmsensor.com email: sales@bcmsensor.com