

# Model 132F

## Pressure Transmitters with Flush Diaphragm



### Description

The 132F pressure transmitter is developed for general purpose in industrial applications. This model features a monolithic structure so as to avoid O-ring fitting internally and achieve solid and durability. Depending on the BCM high-quality metal foil strain gauge, the transmitter provides high accuracy and excellent resistance to wide temperature variation. Available in numerous options of process connection and electrical interface, the 132F can fit most industrial pressure measurement systems.

Consisting of a 17-4PH stainless steel (SS) diaphragm, 316 SS wetted part, and a 304 SS housing, the 132F can be used for measurements involving hostile media. Due to a flush diaphragm process connection, the transmitter is specially designed to measure pressures of viscous fluids or media containing solids with gauge pressure reference.

By selecting proper electrical interface, the 132F is able to reach the environmental protection rating up to IP67.



### Features

- monolithic and rugged structure of the wetted parts
- excellent thermal stability
- measuring ranges: 16, ..., 400 bar
- accuracy up to 0.25%fs
- selectable output:  
4~20 mA (standard), 0.5~4.5V ratiometric and others.
- wide choice of process connection and electrical interface
- protection rating up to IP67

### Applications

- mechanical engineering
- hygienic applications
- hydraulics and pneumatics
- compressor and pump systems
- liquid level measurement

**BCM SENSOR TECHNOLOGIES BVBA**

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### Technical data

Parameters	Units	Specifications
pressure medium		viscous fluid or fluid with particles compatible with the material of wetted parts
pressure range	barG	0~16, ~25, ~40, ~60, ~100, ~160, ~250, ~400
	barA	NA*
	barSG	NA
proof pressure	%fs	150
burst pressure	%fs	200
output signal		4~20 mA (standard), 0.5~4.5 V (ratiometric), 0.5~5 V, 0.5~10 V
accuracy	%fs	≤ ±0.25 (standard), ≤ ±0.5
long-term stability	%fs/year	< 0.2
power supply (Vs)	Vdc	12, ..., 30
response time (10...90%)	ms	<1
load resistance for current loop	Ω	≤ ±(Vs - 10V) / 0.02A - R <sub>cable</sub>
load resistance for voltage output	kΩ	> 5
medium temperature range	°C	-40 ~ +125
ambient temperature range	°C	-40 ~ +85
storage temperature range	°C	-40 ~ +85
compensated temperature range	°C	-10 ~ +60
temperature coefficient of zero	%fso/°C	≤ ±0.015
temperature coefficient of span	%fso/°C	≤ ±0.015
vibration resistance (20, ..., 2000 Hz)	g	10
seal		mono-block wetted part
transmission fluid		NA
material of diaphragm		17-4PH SS
material of mechanical interface		316 SS
material of electronics housing		304 SS
mechanical interface		G1/2, others refer to the drawings of mechanical interface
electrical interface		refer to the drawings of electrical interface
environment protection		IP65, IP66
unit weight	g	~ 300

The listed specifications and dimensions are subject to change without prior notice.

\*: NA = not available or not applicable

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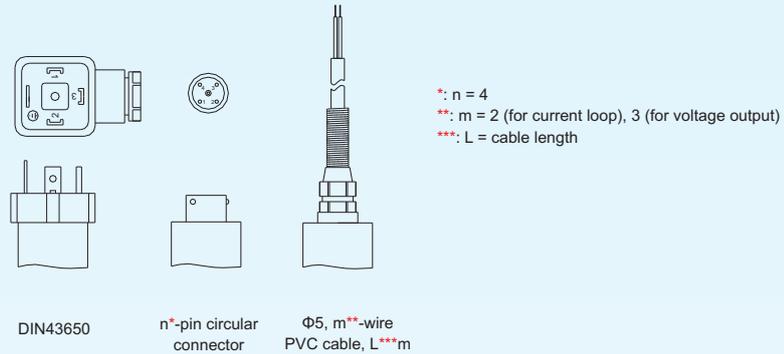
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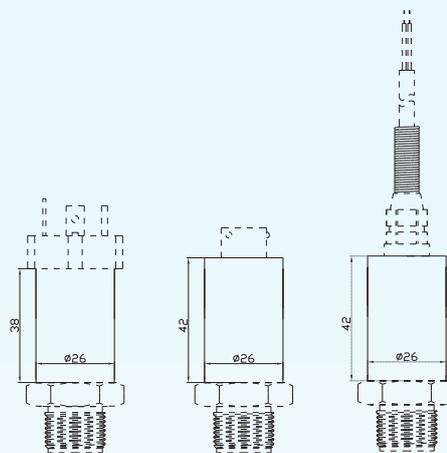
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## Dimensions

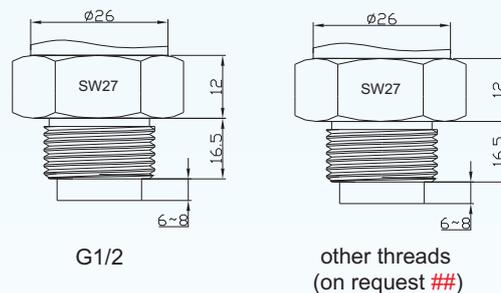
### electrical interface#



### electronics housing (case)



### mechanical interface#



#: The mechanical interfaces and the electrical interfaces listed below can be combined freely.

##: Other types of interfaces are available on request and to be confirmed in case of order.

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### Ordering Information

<b>position (pos.) 1: model</b>										
132F										
<b>pos. 2: ranges and types</b>										
0/16 bar G      0/100 bar G      G: gauge pressure 0/25 bar G      0/160 bar G 0/40 bar G      0/250 bar G 0/60 bar G      0/400 bar G										
<b>pos. 3: output signal</b>										
4~20 mA (standard)      0.5~4.5 V (ratiometric)      0.5~5 V      0.5~10 V										
<b>pos. 4: accuracy</b>										
0.25%fs (standard)      0.5 %fs										
<b>pos. 5: supply power</b>										
24 V (15,...., 36 Vdc)      5 V (for o/p = 0.5~4.5 V)										
<b>pos. 6: filling fluid</b>										
NA*. In case of "NA", pos.6 can be omitted from the ordering code.										
<b>pos. 7: material (wetted parts)</b>										
17/4ph: 17-4PH stainless steel										
<b>pos. 8: mechanical interface</b>										
G1/2      others: refer to the drawings of mechanical interface										
<b>pos. 9: electrical interface</b>										
For available connections, refer to drawings of electrical interface. For cable, code = diameter(Φ)/number of conductors/cable jacket /cable length 5.7/4/PVC/L** = Φ5.7 mm,4-conductors shielded, PVC, L m										
<b>pos. 10: environment protection</b>										
IP 65 IP 66										
<b>pos. 11: customized spec's</b>										
"(*)" is necessary only if any customized parameter is required, otherwise it is neglectable.										
<b>pos.1</b>	<b>pos. 2</b>	<b>pos. 3</b>	<b>pos. 4</b>	<b>pos. 5</b>	<b>pos. 6</b>	<b>pos. 7</b>	<b>pos. 8</b>	<b>pos. 9</b>	<b>pos. 10</b>	<b>pos. 11</b>

\*: NA = not available or not applicable;

\*\* : L = cable length. This value is a customized value.

**example:** 132F-0/160barG-4/20mA-0.5%fs-17/4ph-G1/2-DIN43650-IP65



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