

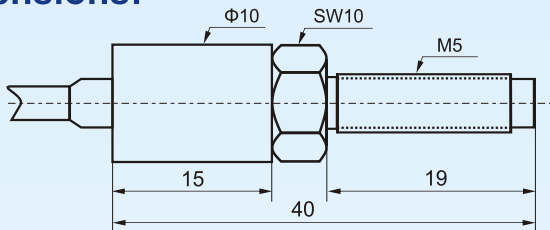
Model 350S Miniature Pressure Transducers

Model 350S miniature pressure transducers are made of BCM silicon pressure sensor dies. The sensor die is located in front of transducer, which allows the transducer be able to measure the dynamic pressure signal within 2 ms dynamic response time. Thanks to the miniature dimensions, model 350S can be easily integrated into many mechanical systems which require small sensor size.

Output signal of 350S is wheatstone bridge output in millivoltage, the transducers are temperature compensated for a temperature ranges of 25~80°C by the outside circuit which connect at the back of transducer, achieve accuracy of 0.5%fso (fso = full scale output) in measuring ranges of 0~0.35 to 0~150 bar.



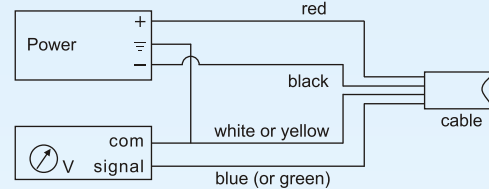
Dimensions:



Features:

- small pressure port down to M5 x19 mm
- measuring ranges from 0~0.35 to 0~150 bar
- gauge, absolute, sealed gauge pressure type
- 100% made from stainless steel
- dynamic respond quickly less than 2 ms.
- used for non-corrosive gases or liquids

Electric connection:



Specifications:

pressure media		non-conductive gases or diluted liquids, compatible to stainless steel
measuring ranges	bar	0~0.35, 0~0.7, 0~1, 0~1.5, 0~2, 0~5, 0~7, 0~10, 0~15, 0~20, 0~35, 0~50, 0~70, 0~100, 0~150
pressure type		differential (ranges < 0~5 bar); gauge, absolute, sealed gauge
overload pressure	%FS	200
frequency range	kHz	50, 70, 100, 130, 160, 240, 350
output signal	mV	50 (< 1 bar); 100
zero offset voltage	mV	10
combined error	%FSO	0.5
non-linearity	%FSO	< 0.5
repeatability	%FSO	< 0.3
hysteresis	%FSO	< 0.3
temperature coefficient of ZERO	%FSO/10°C	0.5
temperature coefficient of SPAN	%FSO/10°C	0.5
input & output resistance	Ω	2000 ± 20%
insulation resistance	MΩ	≥ 100 @ 500 Vdc
supply voltage	Vdc	5 (typical), 10 (max.)
working temperature range	°C	-45 ~ +125
compensated temperature range	°C	25 ~ 80
long-term stability	%FSO/year	< 0.15
dynamic response time	ms	< 2
electrical connection	cable	1 m length, 4-wire, Φ3 mm shield PVC cable

The listed specifications are subject to change without prior notice.

How to order: model - range & type - output - accuracy - process connection - electric connection - frequency - customer specific requests
ordering code example: 350S - 0~16 barG - 100mV - 0.5%fso - M5 - 1m cable - 50kHz - no specific requests

BCM SENSOR TECHNOLOGIES BVBA