

Sub Miniature Pressure Sensor for Harsch Environment



Features	Applications
Available with 0,5-4,5Vdc output	Automotive - on vehicule
Operating from -40 to +140°C	Aerospace
Ultra light sensor : 3 grams	Military
Large Bandwidth	Motorsport

The PHE860 series is designed to operate in the harshest environments, including wide temperature operating temperature, mechanical shocks and vibrations. It is well adapted to embedded measurements, on vehicules, aircrafts, satellites, robots, missiles or on test benches for any equipement where space and mass are at a premium. With pressure ranges available from -1 up to 250 bar, its stainless steel construction makes it usable with most fluids used in industry, even corrosive ones. The PHE860 is manufactured with the ruggedized and proprietary sensitive elements and components developed by EFE. Its manufacturing process, including traceable controls and special burn-in, gives the best insurance of high performances and stability in the most challenging applications.

recnnicai	specific	cations
Pressure ranges (F	FS)	-1/-

-1/+4bar; -1/+9bar;

5bar; 10bar; 20bar; 40bar; 70bar; 250bar;

-14.5/+60PSI; -14.5/+140PSI;

70PSI; 150PSI; 300PSI; 500PSI; 1000PSI; 3000PSI

Type Absolute; Gage

Type (for ranges > 40 bar) Sealed Gage

Safe overload 150% FS

Burst pressure 300% FS

Power supply 8 to 16Vdc

Consumption < 10mA

Insulation > 1000 MOhms under 50Vdc at ambient temperature

Output at -100%FS (only for ± range) 0.5Vdc

Output at 0%FS (except ranges ±) 0.5Vdc

Output at 100%FS 4.5Vdc

Zero and sensitivity settings tolerances ±50mV

www.efe-sensor.com

PHE867 Specifications are subject to change without notice

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Technical Specifications

Non linearity and hysteresis combined ±0.25% FS typical (±0.35% FS max.)

Non repeatability ±0.02% FS typ.

Signal bandwidth 1000Hz @ -3dB

Option : Special Adjustment up to 3000Hz @ -3dB

Compensated temperature range -40 to +125°C

Option : -40 to +140°C

Operating temperature range -40 to +140°C

Combined thermal zero & sensitivity shifts ±0.02% FS/°C

Option: ±0.01% FS/°C

Constant acceleration in linear vibrations ± 0.02% FS/g (frequency 20-2000Hz, 50g max.)

Mechanical shock 100g ½ sinus 1ms

Electrical protection Not protected against polarity inversion

EMC protection Compliant to EN61000

Electrical connection AWG32 4 wires Ø1.6mm Shielded Teflon Cable & Polyolefine Sleeve

Option: AWG32, 4 wires Ø1.6mm shielded Teflon cable and Viton sleeve

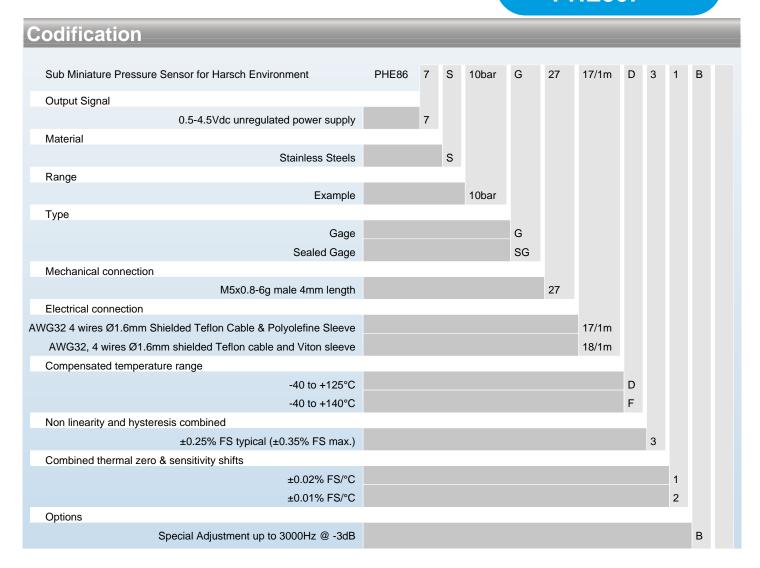
Mechanical connection M5x0.8-6g male 4mm length

Material(s) of wetted parts Stainless Steel 316L; Stainless Steel 17-4PH; Stainless steel 15-5PH

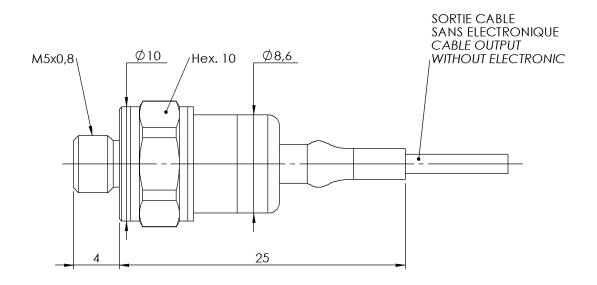
Weight 3g without cable

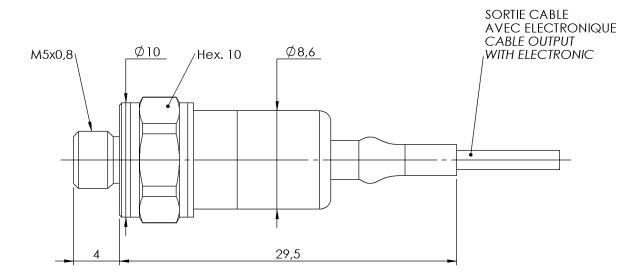
Enclosure protection IP65 for sealed gage version

PHE867



Dimensions PHE867



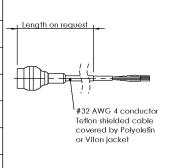




DIMENSIONS: mm



4 CONDUCTOR TEFLON CABLE VOLTAGE OUTPUT CONDUCTOR + EXCITATION RED + SIGNAL GREEN 0 VOLT BLACK NC WHITE SENSOR HOUSING SHIELD

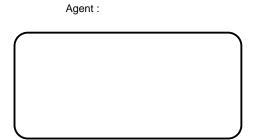




E.F.E.

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Questi prodotti sono distribuiti e supportati in Italia da:

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