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Cylinder Pressure Sensor

for Engine Monitoring

Small cylinder pressure sensor in probe configuration is designed for permanent operation in combustion engines where there is a minimum amount of space available. Particularly suitable for monitoring and closed-loop control of fast running diesel and gas engines. Its high thermal loading capacity and rugged design enable reliable knock detection.

- Service life 109 load cycles
- Knock-resistant
- · Very good long term stability
- · Simple mounting with swivel nut

Description

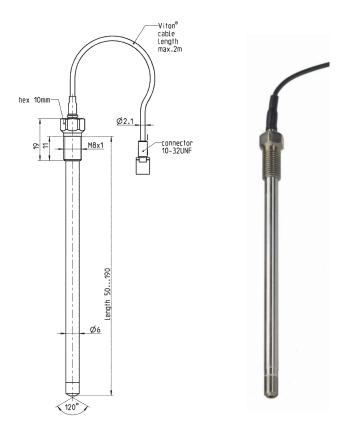
The variable length and small diameter of 6 mm enables the sensor to be mounted in very restricted spaces. The conical sealing and the swivel nut make installation of the sensor simple and uncomplicated. A cone with an angle of 120° is sufficient to provide a sealing surface. The sensor has an integrated high-temperature cable with a thermal resistance of >200 °C.

Apart from its good thermodynamic properties, the sensor is distinguished by high long term stability and very good linearity. The sensor is also available with an optional in-line charge amplifier.

Application

The sensor is suitable for monitoring and closed-loop control of diesel and gas engines. If it is used in heavy-fuel engines, its service life may be shorter. In addition, the deposition of combustion residues may reduce its measuring accuracy.





Technical Data

bar	0 250
bar	300
pC/bar	≈–10
kHz	≈130
% FSO	≤±1
bar/g	<0,001
°C	-50 350
°C	-50 200
%	≤±1,5
Ω	≥10¹³
%	<±1
N⋅m	5
WNr.	DIN1.4542/1.4548
	(AISI630)
g	20
	bar pC/bar kHz % FSO bar/g °C °C % Ω % N·m WNr.

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Mounting Bores

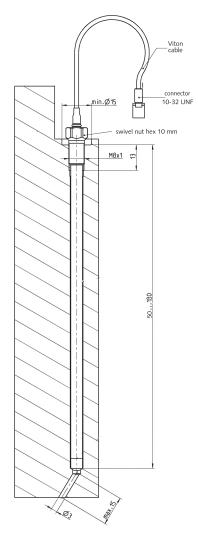


Fig. 1: Mounting bore for Type 6302A...

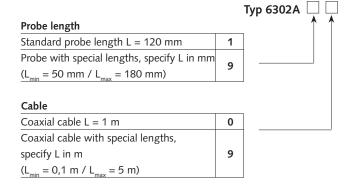
bore Ø6,5±0,2 probe Ø6 probe Ø6 probe 118° probe 120°

Fig. 2: Sealing face detail for Type 6302A...

Accessories Included

None

Ordering Key



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