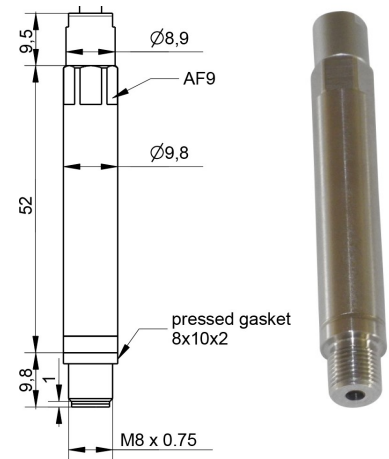


## Small pressure sensor SPS-01

*for On-line combustion control on diesel- and gas engines*

### Characteristics

- Compact design with M8x0.75 thread
- Designed for thin installation places for example pre-combustion installation
- Resistant up to 300 °C
- Available with different tube length



### Application

The miniaturized SPS-01 sensor is designed, thanks to the M8 small thread, and diameter of 10mm for taking measurements at close proximity in places where access is a problem and in very thin pipes – exactly the kinds of conditions associated with small engine applications.

### Technical data

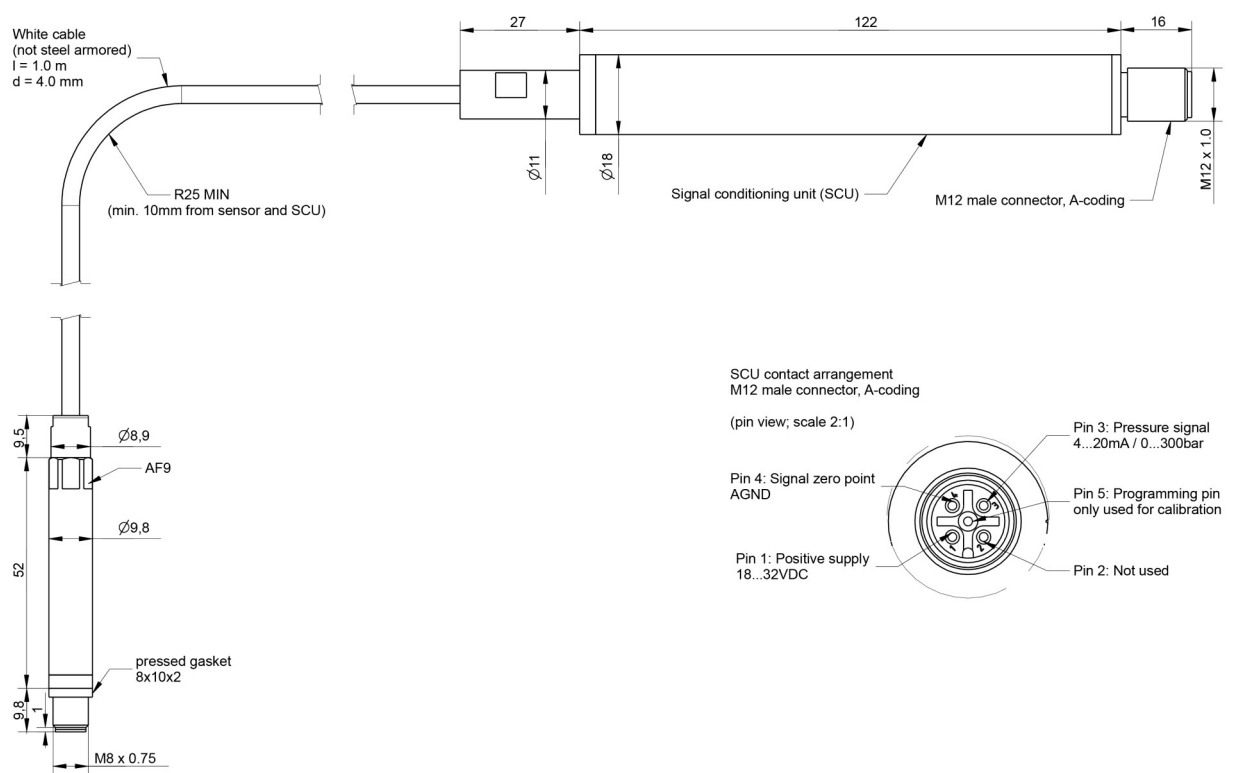
Measuring range pressure	0...300 bar, others on request
Overload pressure static	1200 bar
Load cycles	$\geq 10^8$
Frequency range	10 kHz (others on request)
Thermal shock 1500 RPM pmi=10bar	$\leq \pm 0,5$ bar
Max. temperature at measuring cell	300 °C
Temperature range SCU	-40 °C...75 °C
Supply voltage	18...32 VDC @100 $\Omega$ load: min. 18.0 VDC @250 $\Omega$ load: min. 20.0 VDC @500 $\Omega$ load: min. 24.8 VDC
Output signal pressure	4...20 mA others on request
Electrical connector	M12
Thread	M8 x 0.75
Type of protection	IP 67
Dimension sensor	52 mm , $\varnothing$ 10 mm
Dimension electronic	115 x 18 mm
Tightening torque	6 Nm
Weight incl. Electronic	155 g

## General specifications

Degree of protection	IP 67 (EN 60529)
CE approval	2004/1008/EG EN 61000-6-2 EN 61000-6-4 EN 61326-1

The robust type SPS-01 sensor for continuous measurement of cylinder pressures on four stroke engines offers outstanding longevity and constant sensitivity.

Cylinder pressure measurements can be made with high precision because of its very good thermodynamic characteristics.



Product No.	Pressure range	Sensor length	Cable length	Static overpressure
IW-5801	0 - 300 bar	52 mm	1m	1200 bar