

SA-LSU4.9-000

Bosch LSU 4.9 lambda sensor

Function

- measuring range λ 0.65 ∞ (air) or 6 – 16 A/F
- fast light on (ready for control ~ 30s)
- highly dynamic control



Features

- high signal resolution and accuracy because linear sensor range
- quick response time \approx 50 Hz
- no temperature drift problem because heater control
- long operating life

Illustration similarly

This probe can be used with the following LSU interfaces:

- BC-LSU2_4.9-000 (=2 channel LSU)
- BC-LSU4_4.9-000 (=4 channel LSU)

Technical specifications

Electrical characteristics

Sensor supply.....	12 V
Exhaust gas pressure.....	< 4 bar
Operating exhaust gas temperature.....	< 930 °C
Maximum exhaust gas temperature.....	< 1030 °C
Air/Fuel Ratio together with BC-LSU2CAN...	6 - 16 A/F
Heating power together with BC-LSU2CAN..	max. 2 A
Linear output (Air/Fuel ratio) from.....	6:1 to 16:1
Heater control frequency.....	\geq 100 Hz
Nominal resistance for nernst cell.....	300 Ω

Connector layout

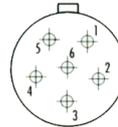
Deutsch AS6 07-35PN

Pin	Name	color	Description
1	IP	red	Inverting input current amplifier
2	VM	yellow	Virtual ground current control
3	Heater -	white	Ground for heater
4	Heater +	grey	Power for heater
5	RT	green	Trim resistance
6	UN	black	Inverting input current control

Mechanical characteristics

Sensor weight (w/o cable).....	120 g
Sensor length.....	84 mm
Thread.....	M18 x 1.5
Cable length (exclusive sensor).....	340 mm
Wrench size.....	22 mm
Tightening torque.....	40...60 Nm

Connector types



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 Possible options on customer request !

Environmental data

Storage temperature range.....	-40...100 °C
Max. vibration (stochastic peak level).....	< 100 G

Please note:

For the first order of special customer options please use the following order code:

SA-LSU4.9-000

After the first order you will get from 2D a uniquely order code for your next orders.

Advice:

Inside of the connector there is a reference resistor which is fitted to the specific sensor. Cutting off the plug without replacing the resistor therefore will cause wrong measuring results.

So do not forget to connect this resistor again if you have to fit a new connector and/or keep the original plug in case of contacting the 2D support.

Ordering information

Standard (Bosch).....	SA-LSU4.9-000
Deutsch AS 6 07-35 PN....	SA-LSU4.9-001