

# A09-Auto pressure transmitter

This high precision pressure sensor range has been designed with many years' input from the industry, specifically for engine and general car development and testing – in particular for harsh applications such as rally and touring cars.

The series has been designed to withstand wide temperature ranges, vibration, shock and automotive EMC levels. Features include a hermetically-sealed, gas-filled housing to prevent condensation and give temperature stability. The sensor can be washed down with pressure washers, and has been specifically designed for safety-critical applications such as brakes – even in the unlikely event that the diaphragm is damaged, there will be no loss of pressure or oil, as the housing is hermetically-sealed.

The pressure sensing element uses the latest thin-film technology, giving small diaphragm size, long-term stability and enabling a high-integrity, welded stainless steel construction. Pressure spike protection can be added without increasing the length and size.

## Specifications

**Pressure Ranges:** 4bar abs, 5, 10 and 170bar S (others on request)

**Power Supply:** 8 to 20 VDC at 5 mA

**Signal output:** 0.5 to 4.5V single ended amplified

**Operational temperature range:** -25 to +85C

**Linearity error:** 0.2% or better

**Hysteresis and repeatability:** 0.1% or better

**Thermal effect on Zero:** 0.2%/10°C

**Thermal effect on Span:** 0.2%/10°C

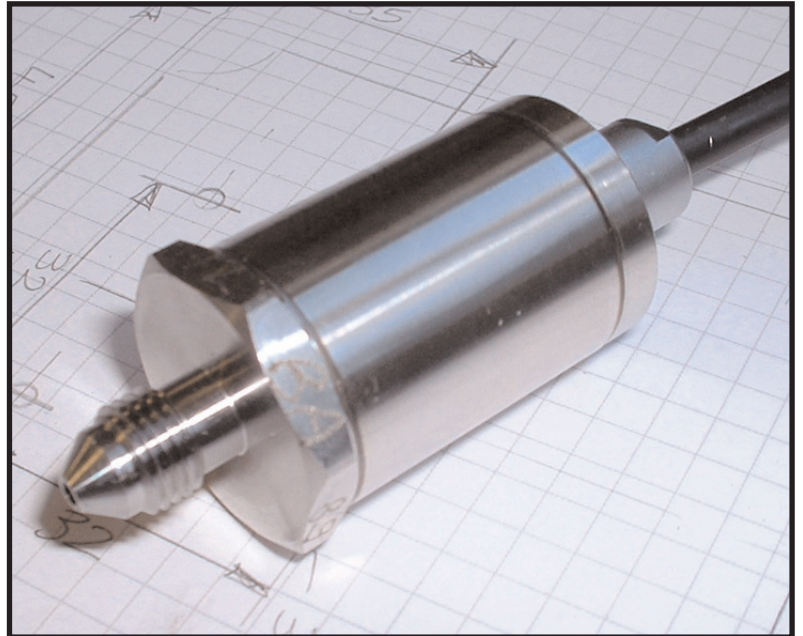
**Protection Class:** IP67

**EMC:** EN50081-1 EN50081-2

**Overpressure:** 2 x without damage, 5 x burst

**Material:** Stainless steel 1.4571

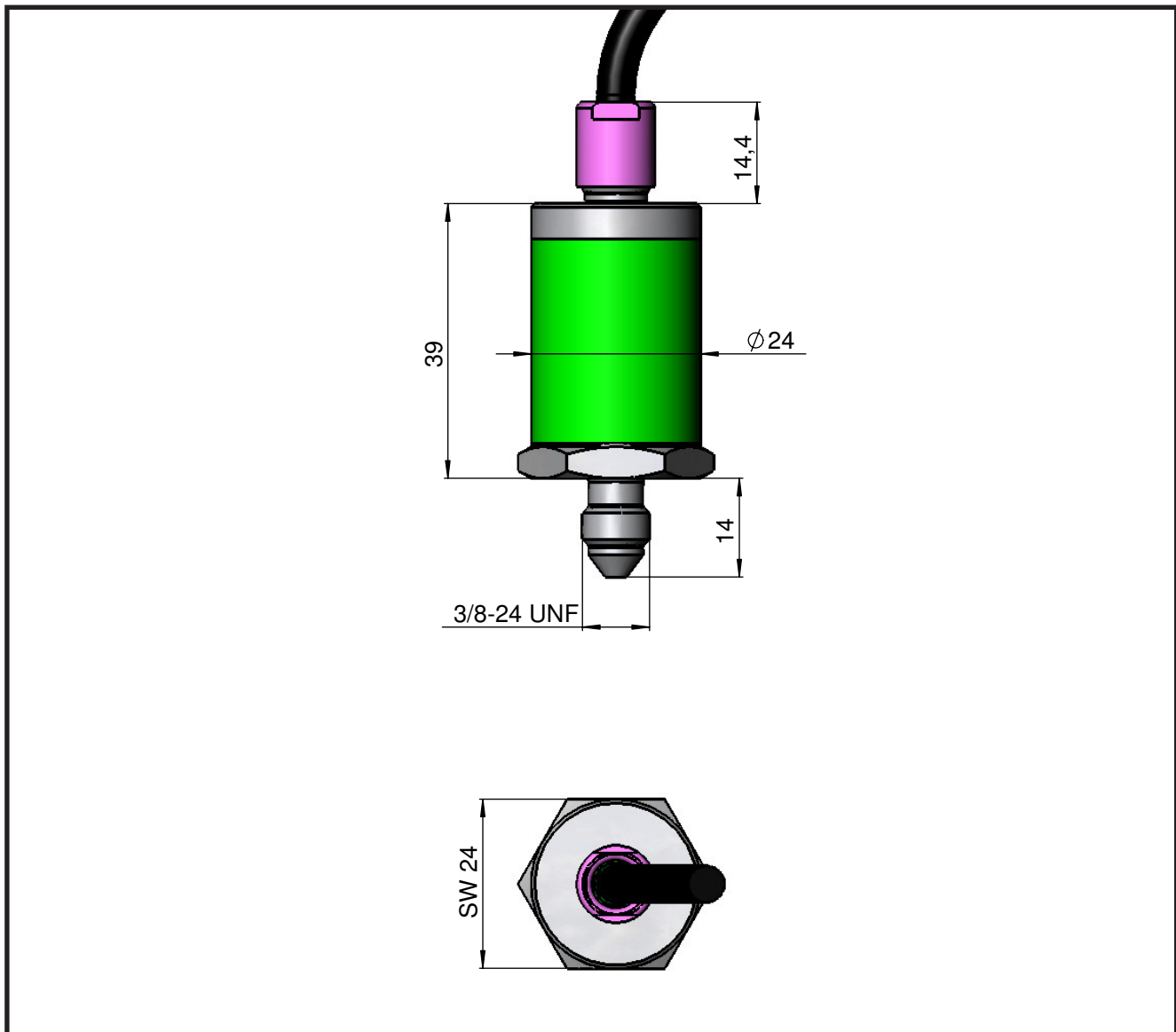
**Weight:** 70g (without cable)



- **Hermetically sealed housing**
- **High EMC protection**
- **Safety-critical application suitability**
- **Zero offset for correct cable connection**
- **Wide power supply range**
- **High level voltage output**
- **Stainless steel assembly**

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## A09-Auto pressure transmitter



### Wiring details:

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Red: + Supply

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Orange: Signal output

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Black: Common

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Brown wire: do not connect

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