

- Piezoelectric barometric pressure sensor
- Low power consumption
- Operating pressure:  
AB 60 (S31105) 800 ... 1100 hPa (mbar)

## Measurement principle and mounting

The piezoelectric pressure sensor's signal is electronically amplified to provide an output signal of 0...5 VDC. The sensor is mounted in a stainless steel housing, protection class IP64 when the connector is plugged in.

If required, the sensor is ready for connection in an Ammonit steel cabinet.

When mounted outside the central steel cabinet we recommend protective housing with pressure compensation.

In measurement operation the sensor needs an external supply of at least 9 VDC.



## Specifications

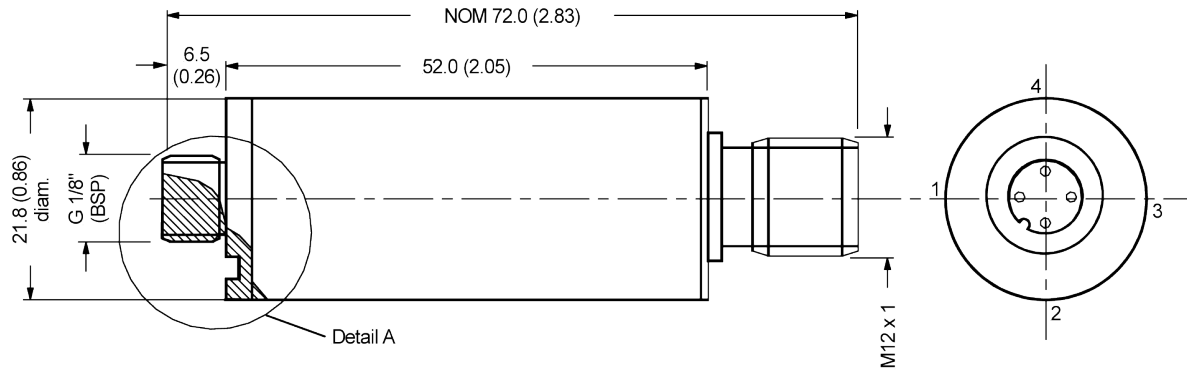
Characteristics	AB 60
Order-No.	S31105
Operating pressure	800 ... 1100 hPa (mbar) (Altitude: ≤ 1400 m)
Slope	60 hPa/V
Offset	800 hPa
Temperature operation range	-40 ... 85 °C
Humidity range	0 ... 98 %RH
<b>Accuracy</b>	
Total accuracy (-10 ... 60 °C)	±3 hPa
Repeatability	±0,6 hPa
Long term stability	±0,3 hPa/year
<b>Electrical data</b>	
Output voltage	0 ... 5 VDC
Supply voltage	9 ... 32 V
Current consumption	5 mA
<b>General</b>	
Dimensions	Length 72 mm, diameter 22 mm
Weight	80 g
Housing	Stainless steel
Connection	4-pole plug (M12)
Protection class	IP 64 - when connector is plugged in
Vibration (5 ... 500 Hz)	2 gRMS
Mechanical shock	50 g
Atmosphere	non-ionic, non-corrosive

\* FSO (Full Scale Output) describes the difference of the upper and the lower limit of the pressure range.

# Barometric Pressure Sensor AB 60

S31105

## Dimensional drawing



mass: appr. 80g

dimensions in mm

## Sensor connection to Ammonit Meteo-40 data logger

Sensor	Plug Pin No.	Ammonit Cable Wire Colour	Meteo-40 Analog Voltage	Supply Sensor
Air Pressure Output Voltage	2	white	Ax A	
Ground	4	blue	Ax B	
Supply	1	red		9 ... 32 VDC
Ground	4	black		Main Ground

Cable type: LiYCY 4 x 0.25 mm<sup>2</sup>

Connect the shield logger-sided to Ground (GND)

## Sensor connection diagram to Ammonit Meteo-40 data logger

