

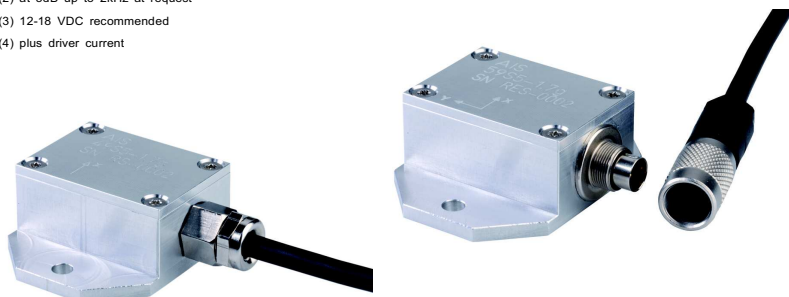
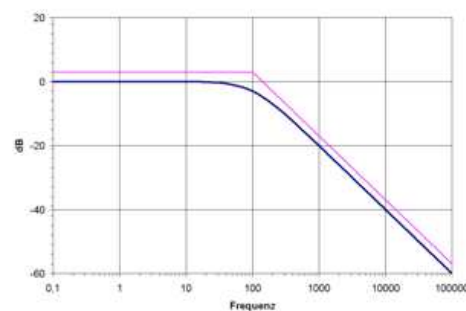
Vibration/Acceleration - Sensor 1,7g

AIS 49S5/AIS 59S5 is a small vibration/acceleration sensor in a special housing which do not allow parasitic vibrations. Protection Class IP67 allows offshore applications. It is available with one or two axes, voltage or current output and low pass filter.

TYPE	Current Output	Voltage Output
<u>Measuring Range</u>	<u>±1,7g</u>	<u>1,7g</u>
Shock resistance	>2000g ⁽¹⁾	>2000g ⁽¹⁾
Frequency Range	0-100 Hz ⁽²⁾	0-100 Hz ⁽²⁾
Cross sensitivity	typ. 0,025g/g, max. 0,05g/g	typ. 0,025g/g, max. 0,05g/g
Resolution	2mg	2mg
Temperature Range	-45°C to 100°C	-45°C to 100°C
Zero Point Offset	2,5%	2,5%
Sensitivity Error	1,5%	1,5%
Linearity Error	typ. 0,2%, max.1,25%	typ. 0,2%, max.1,25%
Supply Voltage	7 - 24 VDC ⁽³⁾	7 - 24 VDC ⁽³⁾
Inverse-Polarity Protection		
Power Consumption	ca. 2,5mA ⁽⁴⁾	ca. 1mA
Output Signal	4-20mA	0,5 to 4,5V
Signal at 0g	12mA	2,5V
Sensitivity	4,7mA/g	1000mV/g
Protection Class	IP67	IP67

- Housing 40x25x16mm, full metal cable-feedthrough, 3 fixing holes suitable for screws M4, 2 holes at both sides of the cable-feedthrough, one centered at the opposite side
- 3m shielded PUR-cable, insulated and tinned
- Optional integrated connector with cable set
- Optional with low pass filter
- Optional with 2g version

- (1) shock resistance up to 3500g
 (2) at 3dB up to 2kHz at request
 (3) 12-18 VDC recommended
 (4) plus driver current



AIS 49S5.RK.C	uniaxial, cable, current
AIS 49S5.RS.C	uniaxial, connector, current
AIS 49S5.RK.C/LP	uniaxial, cable, current, low pass
AIS 49S5.RS.C/LP	uniaxial, connector, current, low pass
AIS 49S5.RK.V	uniaxial, cable, voltage
AIS 49S5.RS.V	uniaxial, connector, voltage
AIS 49S5.RK.V/LP	uniaxial, cable, voltage, low pass
AIS 49S5.RS.V/LP	uniaxial, connector, voltage, low pass

cable code
 brown = Supply -
 yellow = Supply +
 green = X / Signal +
 white = Y / Signal +
 for best performance shield should be grounded

AIS 59S5.REK.C	bi-axial, cable, current
AIS 59S5.RES.C	bi-axial, connector, current
AIS 59S5.REK.C/LP	bi-axial, cable, current, low pass
AIS 59S5.RES.C/LP	bi-axial, connector, current, low pass
AIS 59S5.REK.V	bi-axial, cable, voltage
AIS 59S5.RES.V	bi-axial, connector, voltage
AIS 59S5.REK.V/LP	bi-axial, cable, voltage, low pass
AIS 59S5.RES.V/LP	bi-axial, connector, voltage, low pass

Novemer 2010 - subject to change

For further performance please ask !

