

2-Dimensional Inclination Sensor

with Industry Standard Output 4...20 mA / 0...10 V

IS2A xx S yy

xx = Measurement Range $\pm 10^\circ$, $\pm 45^\circ$, $\pm 60^\circ$

yy = 08 Output 4...20 mA

10 Output 0...10 V

The IS2A measures inclination around two axis with two vibration-insensitive, micromechanical sensor elements. The structural design permits a high accuracy at also high stability and reliability. Due to the durable aluminum housing and the big operating temperature range the sensor is easy to integrate for almost every measurement problem.



Technical Specifications:

	10° - type	45° - type	60° - type
Measurement Range	+ / - 10°	+ / - 45°	+ / - 60°
Zero Degree Resolution	0,01°	0,045°	0,06°
Offset	0,1°	0,15°	0,15°
Sensitivity in Offset	0,5 V/° 0,8 mA/°	0,11 V/° 0,178 mA/°	0,084 V/° 0,134 mA/°
Operating Temperature Range	- 40°C...85°C	- 40°C...85°C	- 40°C...85°C
Temperature Drift	< 0,03°/K	< 0,03°/K	< 0,03°/K
Non-linearity	< 0,3°	< 0,8°	< 1°
Cross Sensitivity	max. 1 %	max. 1 %	max. 1 %
Shock resistance	5 000g	5 000g	5 000g
Supply Voltage	18 to 30V	18 to 30V	18 to 30V
Power Consumption	< 25 mA	< 25 mA	< 25 mA
Output Signal	0...10V, 4...20mA	0...10V, 4...20mA	0...10V, 4...20mA
Housing	Aluminum ; IP65 (optional IP67)	Aluminum ; IP65 (optional IP67)	Aluminum ; IP65 (optional IP67)
Dimensions	60mm x 65mm x 46mm	60mm x 65mm x 46mm	60mm x 65mm x 46mm
Weight	175g	175g	175g

Preliminar Last updated: May 2003

