

ACS-360-1-SC00-VK2-PM

POSITAL
FRABA



General Specifications

Application	1-Axis Position Monitoring and Leveling
Measurement Range	360°
Absolute Accuracy	0.10°
Resolution	0.01°

Electrical Specifications

Supply Voltage	10 – 30 VDC (See also Interface: Max Load Resistance)
Power Consumption (no load)	≤ 0.7 W
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes

Environmental Specifications

Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
-----------------------	------------------------------------

Storage Temperature -40 °C (-40 °F) – +85 °C (+185 °F)

Temperature Gradient 0.004°/ K

Protection Class IP68/IP69K

Shock Resistance ≤ 100 g (half sine 6 ms, EN 60068-2-27)

Vibration Resistance 1.5 mm (10 Hz – 58 Hz) & ≤ 20 g (58 Hz to 2000 Hz)

Mechanical Specifications

Housing Material Die-Cast Aluminum Alloy

Potting Material PUR (Polyurethane)

Weight 220 g (0.49 lb)

Certificates / Lifetime

MTTF 350 years @ 40 °C

Certificates CE

Interface

Interface Analog Current 4 – 20 mA + RS232

Teach In Zero Positioning, Inverse Direction, Elevation Range Programming

Settling Time 125 ms

Output Type Current 4 – 20 mA

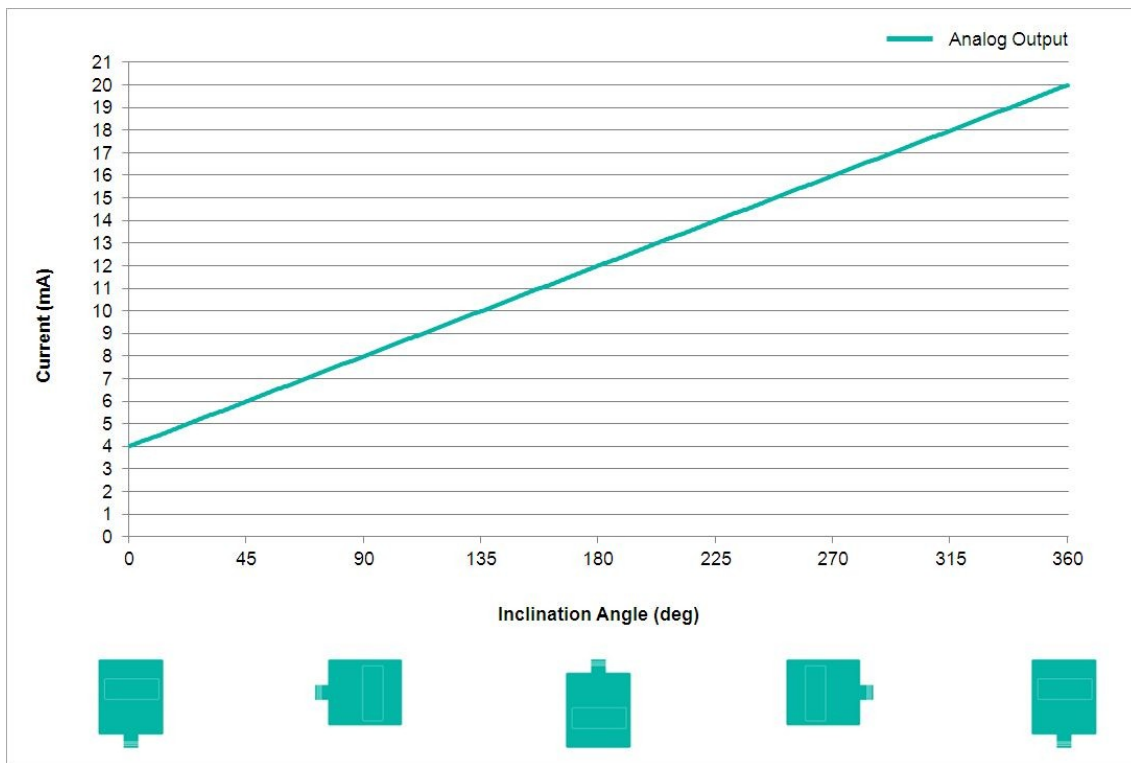
Max Load Resistance 270 Ω @ 10 V DC (500 Ω @ 15 V DC)

Transmission Rate RS232: min. 1200 Baud; max. 115200 Baud

Default Transmission Rate RS232: 9600 Baud

Linearity

± 0.02%



Electrical Connection

Connection Type

Connector M12

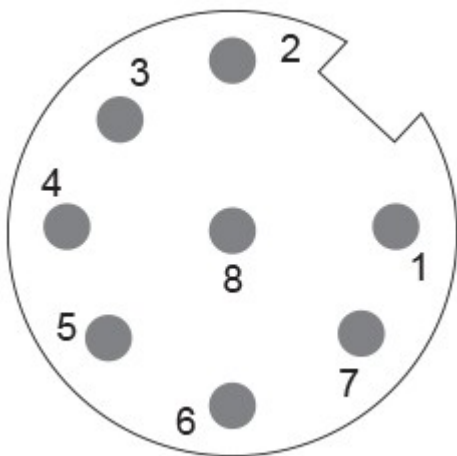
Connector

M12, Male, 8 pin, a coded

Product Life Cycle

Product Life Cycle

Established



Connection Plan

SIGNAL	PIN NUMBER
Power Supply	1
GND	4
Z-Axis, Current Output	5
Set1	6
Set2	8
RxD	2
TxD	3
Not Connected	7

Dimensional Drawing

