



TILTIX Inclinometer

ACS-360-1-SC00-VE2-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 |
| MTTF | 350 years @ 40 °C |

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 | IP66/IP67 |
| Shock Resistance | ≤ 100 g (half sine 6 ms, EN 60068-2-27) |

Data Sheet

Printed at 4-06-2021 19:06

POSITAL

FRABA



| | |
|----------------------|---|
| Vibration Resistance | 1.5 mm (10 Hz - 58 Hz) & \leq 20 g (58 Hz to 2000 Hz) |
|----------------------|---|

Mechanical Specifications

| | |
|------------------|---|
| Housing Material | Fibre-Reinforced PBT (Polybutylene Terephthalate) |
| Potting Material | PUR (Polyurethane) |
| Weight | 100 g (0.22 lb) |

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 | \pm 0.02% |

Sold & Serviced By:



Canadian and International Sales

ELECTROMATE

877-737-8698

sales@electromate.com

www.electromate.com

U.S. Sales

SERVO2GO.com

877-378-0240

sales@servo2go.com

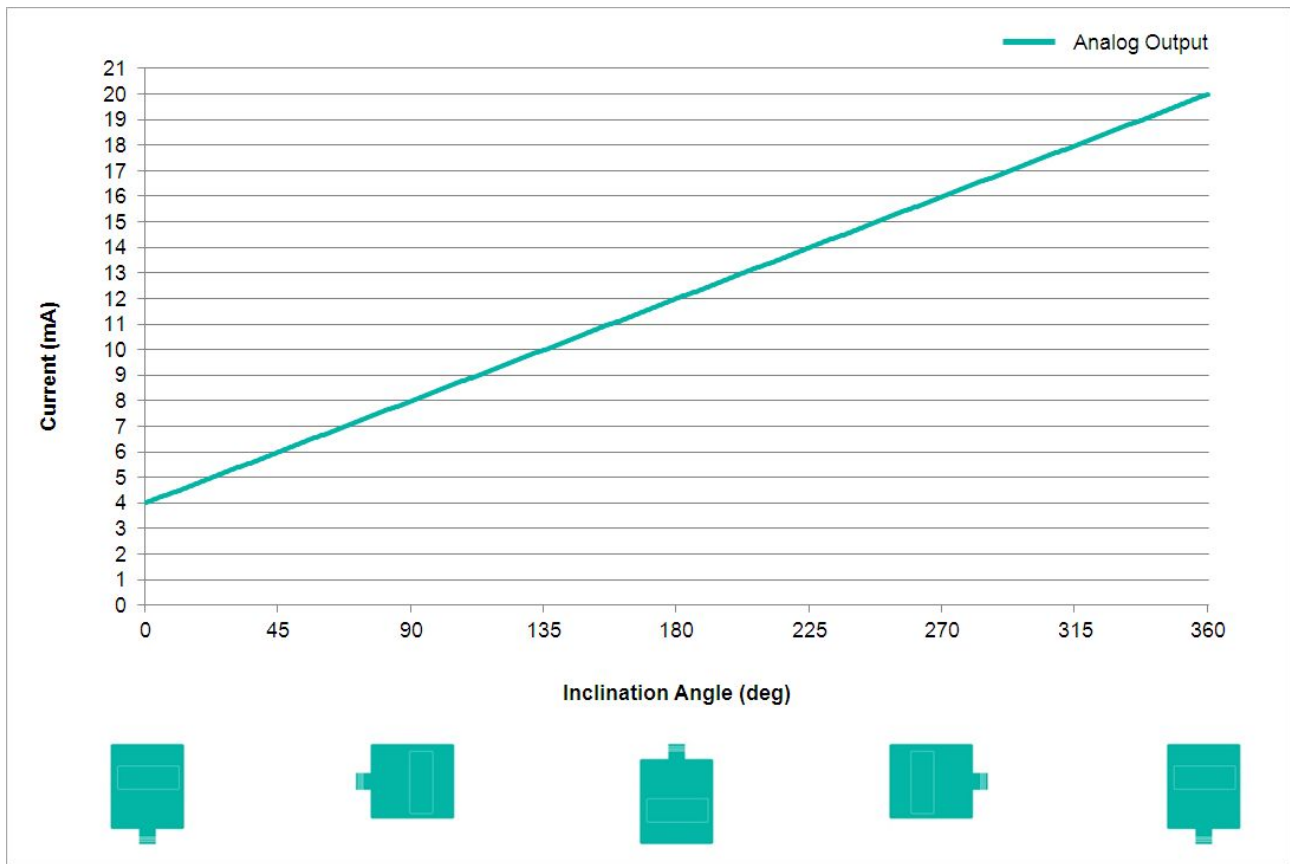
www.servo2go.com

Data Sheet

Printed at 4-06-2021 19:06

POSITAL

FRABA



Electrical Connection

| | |
|-----------------|---------------------------|
| Connection Type | Connector M12 |
| Connector | M12, Male, 8 pin, a coded |

Product Life Cycle

| | |
|--------------------|-------------|
| Product Life Cycle | Established |
|--------------------|-------------|

Certification

| | |
|----------|------------|
| Approval | CE + cULus |
|----------|------------|

POSITAL

FRABA



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

[2D Drawing](#)

Accessories

Connectors & Cables

10m PUR Cable, 8pin, A-Coded, f

POS M12 8pin-A Female+5m PUR Cable

POS M12 8pin-A Female+2m PUR Cable

POS M12 8pin-A Female+10m PUR Cable

M12, 8pin A-Coded, Female

More

Displays

AP22-D0 Analog Display (4 dig. o/p)

DiMod-A Analog Display

Data Sheet

Printed at 4-06-2021 19:06

POSITAL

FRABA



Got questions? Need an individual solution? We are here to help!

Sold & Serviced By:



Canadian and International Sales

ELECTROMATE

877-737-8698

sales@electromate.com

www.electromate.com

U.S. Sales

SERVO2GO.com

877-378-0240

sales@servo2go.com

www.servo2go.com

All dimension in [inch] mm. This drawing and the information contained is for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.

Data Sheet

Printed at 4-06-2021 19:06