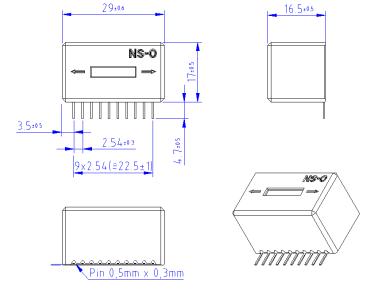






Dimensions [mm]



E-SERIES INCLINOMETER

SPECIFICATIONS

Single axis inclinometer

Measurement range ±5 resp. ±15 deg

Analog voltage output

The E-Series is a fully signal conditioned single axis inclinometer ready for installation. Consisting of a tilt sensor, and hybrid electronics sealed within a ceramic housing, the E-Series provides a smooth VDC output over the ±5 resp. ±15 deg measurement range. Adjustments to zero, sensitivity and accuracy can be made by use of external passive components, allowing customization to individual applications. A precision reference surface assures measurement accuracy, while the 10 connection pins provide easy soldering onto a circuit board or other substrate.

FEATURES

- +6.5 to +24 VDC unregulated input
- Lightweight / compact
- High resolution
- Wide -25 °C +85 °C operating temp range
- Small dimension
- Easy installation

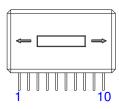
APPLICATIONS

- Road construction machines
- Building control
- Weighing systems
- Mobile and stationary cranes
- Platform leveling

PARAMETERS

	Conditions	Min	Туре	Max	Unit
Measurement range (1)		-5 , -15		+5, +15	deg
Repeatability			0.02		Deg
Linear error	NS-5/E		0.5		%
Linear error	NS-15/E		1.5		%
Symmetry error			0.5		deg
Zero point offset (2)			0.5		deg
Response time (3)	t90 G-NSE-001, G-NSE-013		1		s
Response time (3)	t90 G-NSE-007		4		s
TC zero point			0.5		m°/K
TC sensitivity			6.5		m°/K
Output signal, typical	NS-5/E	-3		+3	V
Output signal, typical	NS-15/E	-2		+2	V
Current consumption			5		mA
Power supply		+6.5		+24	VDC
Operating temperature range		-25		+85	°C
Storage temperature range		-40		+85	°C
Weight			20		g
Dimensions	WxDxH		29 x 17 x 16	3	mm

- (1) measurement ranges ±5° and ±15° are available
 (2) external adjustment with potentiometer possible
- (3) response time depends on the used electrolyte:
 - a. less viscose elektrolyte results in faster response time
 - b. more viscose electrolyte results in higher output stability



For pinning please use the instruction manual of the E-series.

ORDERING INFORMATION

PART NUMBERING	UNIT	SHORT DESCRIPTION
G-NSE-001 G-NSE-007 G-NSE-013	NS-5/E NS-15/E NS-15/E	Range ± 5 deg, Vcc $+6.5-24$ VDC,voltage output signal ± 3 V Range ± 15 deg, Vcc $+6.5-24$ VDC,voltage output signal ± 2 V Range ± 15 deg, Vcc $+6.5-24$ VDC,voltage output signal ± 2 V

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