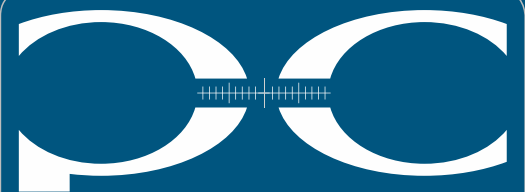


Inklinometer Typ: PC-IN2-1°

Datasheet



POSITION CONTROL
MEASUREMENT ENGINEERING



Specifications by Range @ 20°C

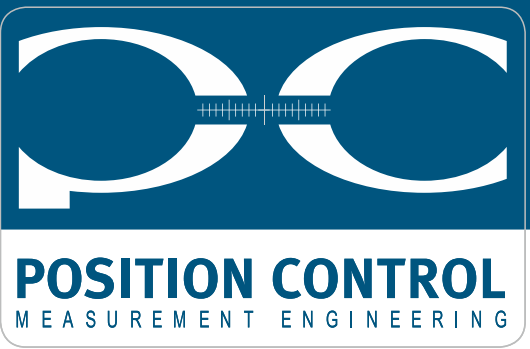
	Range	±1°	±3°	±14.5°	±30°	±90°
Excitation Voltage	Volts dc			±12 to ±18		
Current Consumption	mA (nom)	±25	±25	±15	±15	±15
Full Range Output (FRO) note 1	Volts dc/RS485			±5 or POCO BUS (ModbusASCII)		
Output Standardisation	% FRO (max)			±1		
Output Impedance	Ohm			<10		
Output Noise (DC to 10kHz)	V rms (max)			0.005		
Non-Linearity (see note 2)	% FRO (max)	0.05	0.05	0.02	0.02	0.05
Non-Repeatability	% FRO (max)	0.04	0.02	0.004	0.002	0.001
Resolution	arc seconds	0.1	0.2	1.0	2.0	4.0
-3 dB Frequency	Hz	10	15	30	40	55
Sensitive Axis-to-Case Misalignment	deg (max)	±0.1	±0.15	±0.25	±0.5	±1.0
Cross-axis sensitivity (see note 3)	% FRO (max)			0.2		
Zero Offset (see note 4)	Volts dc (max)	±0.05	±0.04	±0.03	±0.02	±0.02
Thermal Zero Shift	%FRO/°C (max)	±0.05	±0.03	±0.01	±0.005	±0.003
Thermal Sensitivity Shift	%Reading/°C (max)	±0.04	±0.03	±0.01	±0.006	±0.006
Temperature Sensor Output	µA/°K			1		

Notes

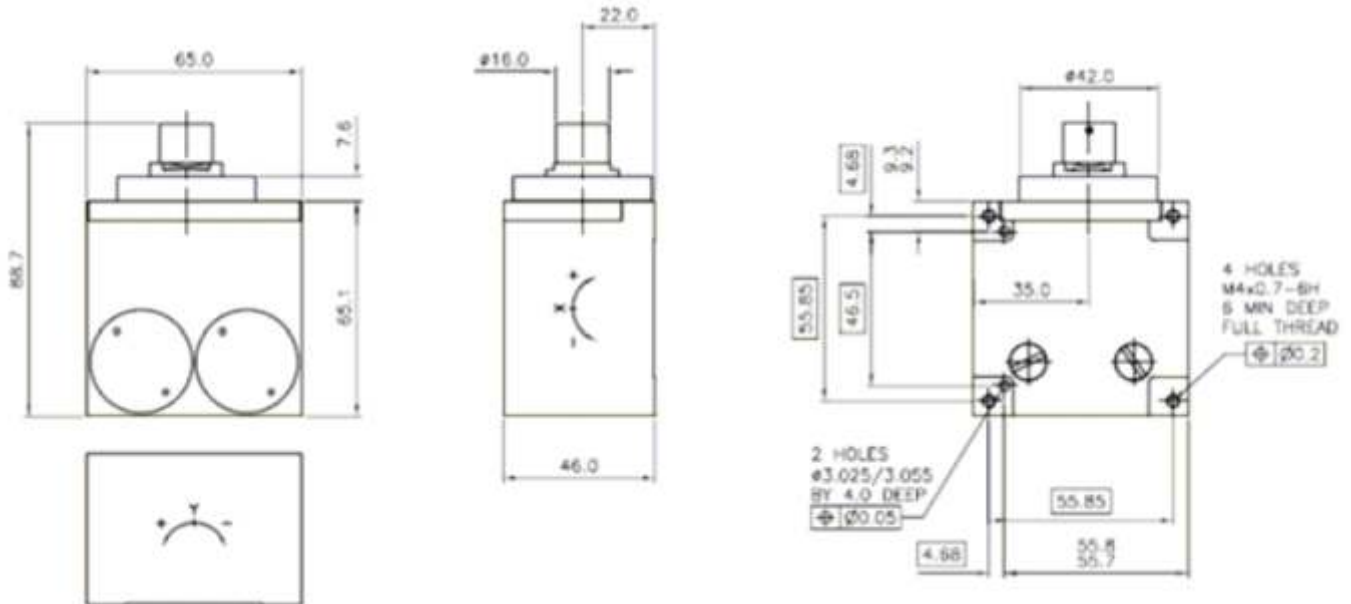
1. Full Range Output is defined as the full angular excursion from positive to negative angle
2. Non-linearity is determined by the method of last squares.
3. Cross-axis Sensitivity is the output of unit when tilted to full range output angle in cross axis
4. Zero offset is specified under static conditions without any vibration
5. Special thermal Compensation only with POCO-Bus Option on Request

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Dimension:



Environmental Characteristics

Operating Temperature Range	°C	-18 to 70
Survival Temperature Range	°C	-40 to 70
Constant Acceleration Overload	g	50
Shock Survival		1250g, 0.5msec, 1/2 sine
Vibration Endurance		35g rms, 20 Hz to 2000 Hz sinusoidal
Environmental Sealing	IP65	
EMC Directive	EN 61326: 1998	
EMC Emissions	EN 55022: 1998	30 MHz to 1 GHz
EMC Immunity	EN61000-4-2 1995 inc A1: 1998 & A2: 2001	±4 kV
	EN61000-4-3: 2002	10 V/m
	EN61000-4-4: 2004	± 1 kV
	EN61000-4-6 1996 inc A1: 2001	3 Vrms
	EN61000-4-6: 2007	10 Vrms
	EN61000-4-8: 1994 Incorporating Amendment A1: 2001	30 A/m