PY2 - Linear Motion Position Sensors

Ixthus Instrumentation

- Ball Head Pre-loaded Spring Type
- Mini design for limited space
- ∅ 18 Section, Standard 10-50 mm
- Anodised Aluminium Housing
- Long Life, High Resolution
- Excellent Repeatability
- Double slide and bearing, harden steel ball head for measurement of cam-following application

This mini position transducer is designed for direct absolute measurement and available in stroke length up to 50 mm. The mini design is suitable for mounting in instruments or machines with limited space, especially for cam-following applications. An improved technique for making a connection to the resistance track (Double Trimming Technique) ensures the higher degrees of reliability and linearity, while multi-fingers wipers stabilize output signals, even in the most adverse working conditions.

The fixing feet are adjustable to the desired position.

Specifications

Mechanical	
Typical Life Cycle	> 100 x 10^6 cycles, > 25 x 10^6 m
Stroke	10 - 50 mm
Linearity up to	± 0.1 %
High Resolution	Infinite
Repeatability	± 0.01 mm
Max. operating speed	5 m/s
Environmental	
Housing	Anodised Aluminium Housing
Operating Temperature	-30... +100° C
Storage Temperature	-50...+120° C
Vibration	IEC 68-2-6:1982 10g
Shock	IEC 68-2-29:1968 40g
Rating	IP40, optional IP65
Misc	Fuse Protected optional Anti-rotating shaft device optional

Electrical	
Current resistance	≤ 10mA
Current wiper	≤ 1 mA
Operating Force	≤ 1.2N (IP40) ≤ 5N (IP65)
Power Consumption	3W - 10W
Output Smoothness	<± 0.1% against input voltage
Input Voltage	60 V max
Insulation Voltage	500V - 1min Residue < 5 µ A

Ordering information

(Please use the characters in the chart below to construct your product code)

Sample Code: PY2 - C - 50 - P - 3M

Series	Connection	Length	Rating	Cable length
PY2	C - C193 4-Pin Connector FS - Cable	10 25 50	P = Water Proof IP65 S = Standfard IP40	blank = 1 m standard cable 3M = 3 m screened cable

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Subject to change without notice

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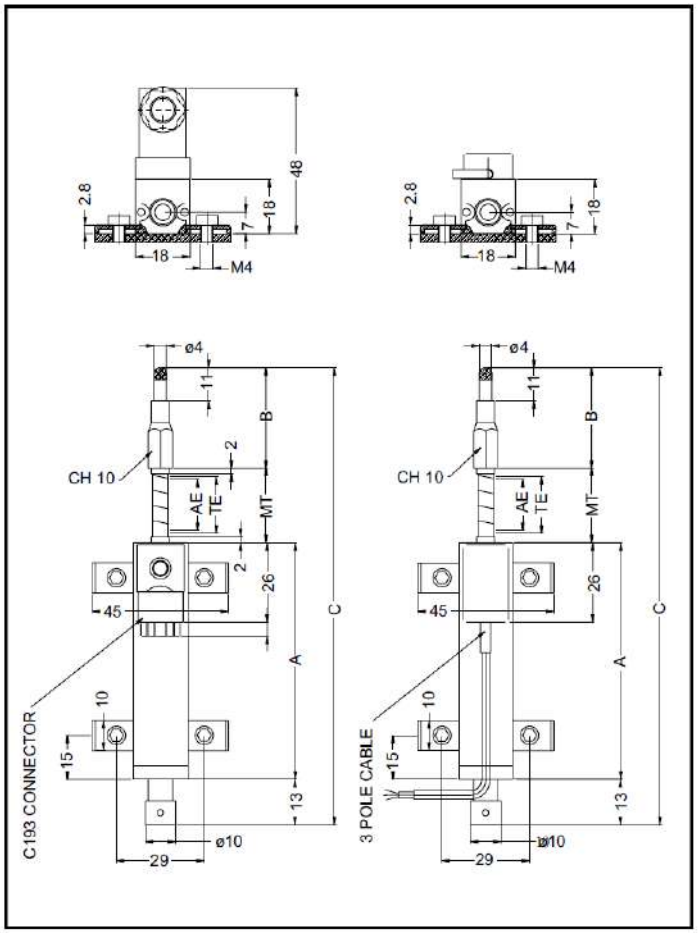
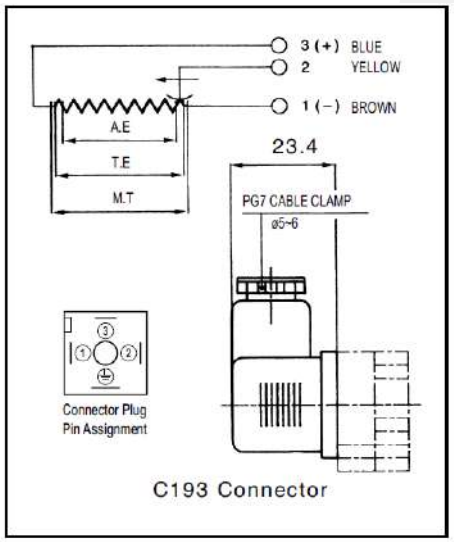
Ordering information cont.

PY2 series		10	25	50
Total Electrical Travel(T.E)	mm	11	26	51
Active Electrical Travel (A.E)	mm	10	25	50
Resistance ±20%	kΩ	1	1	5
Independent Linearity	±%	0.3	0.2	0.1
Mechanical Travel (M.T)	mm	15	30	55
Resolution		infinite		
Recommended Cursor Current	µA	< 1		
Temperature Range	°C	-30 to +100		
Dimensions (A)	mm	48	63	88
Dimensions (B)	mm	32	32	40
Dimensions (C)	mm	108	138	196

* Dimensions for reference only

Dimensions and Electrical connections





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