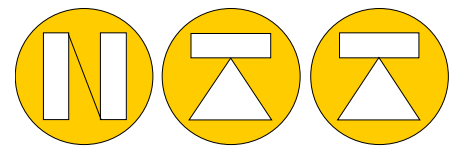
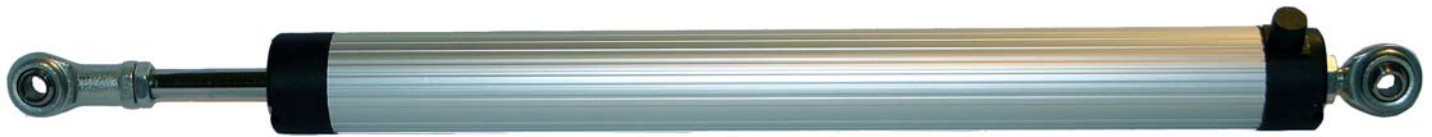


PCM LINEAR MOTION POSITION TRANSDUCER

Ø35mm housing Ø10mm Pulling Rod up to 900mm stroke
Heavy Duty model PCM



NORDIC TRANSDUCER



Unique Features

- Durable bearing and slider
- Anodized Aluminium Housing
- Smooth Low Noise Output from Conductive Plastic Track
- Very Long Life
 - >100 x 10⁶ cycles
 - > 25 x 10⁶ m
- Stroke 50-900mm
- Outstanding Linearity ±0.05%
- High Resolution Infinite
- Excellent Repeatability ± 0.01 mm
- Max operating speed 5m/s max.
- C193 4 Pin Connector
- Fuse Protected optional
- Operating temperature -30...+100°C
- Storage Temperature -50+120°C

Technical Specifications

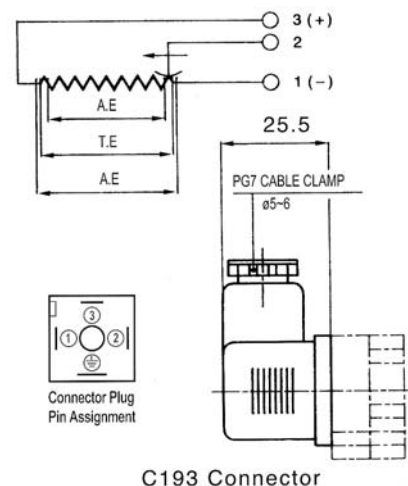
Sealing- PCM	IP65
Current Resistance	<10mA
Wiper	< 1 µA
Operating Force	<10N
Power Consumption	3W-10W
Output Smoothness voltage	<± 0.1% against input
input Voltage	60V Max
Insulation Voltage	500V-I min Residue <5 µA
Vibration	FC 68-2-6:1982 10g
Shock	FC 68-2-29:1968 40g

The sensor is built for easy mounting by double built in connectors; enable a large angle of misalignment and without backlashes. A built in connector system that is designed of reliability and safety contributes to excellent performance. These series can be used in a wide range of applications in mechanical and vehicle engineering industries as well as in automation and robotics technologies, combining remarkable robustness with high accuracy.

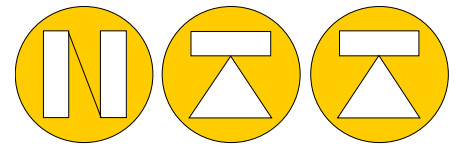
An improved technique for making connection to resistance track (Double Trimming Technique) ensures the higher degrees of reliability and linearity, while multi-fingers wipers stabilize output signals, even in the most adverse working conditions.



Electrical Connections

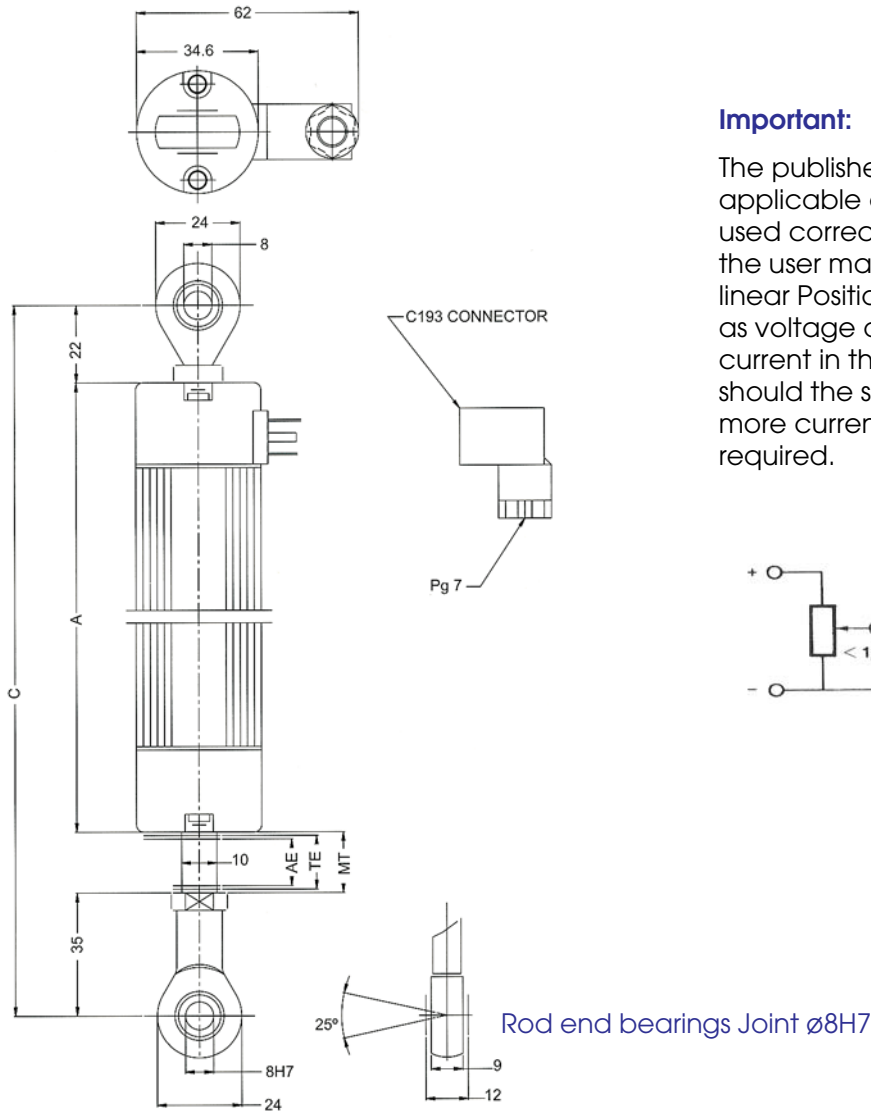


PCM LINEAR MOTION POSITION TRANSDUCER



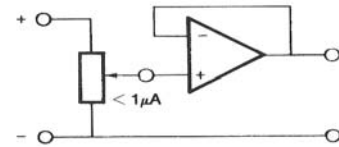
NORDIC TRANSDUCER

Mechanical Dimensions PCM



Important:

The published technical data are applicable only when the transducer is used correctly, and in accordance with the user manual / instructions. The PCM linear Position transducers must be used as voltage dividers with a maximum current in the wiper contact of $1 \mu A$; should the system downstream require more current, further circuitry will be required.



Dimensions for reference only

PCM series		50	75	100	130	150	175	200	225	250	275	300	350	375	400	425	450	500	550	600	650	700	750	800	900	
Total Electrical Travel(T.E)	mm	53	78	103	133	153	178	204	229	254	279	304	354	380	406	432	457	508	558	609	659	710	762	812	914	
Active Electrical Travel (A.E)	mm	51	76	101	131	151	176	202	227	252	277	302	352	378	404	430	455	506	556	607	657	708	760	810	912	
Resistance $\pm 20\%$	k Ω	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	10	10	10	10	
Independent Linearity	$\pm\%$	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
Mechanical Travel (M.T)	mm	59	84	109	139	159	184	210	235	260	285	310	360	386	412	437	463	518	568	619	669	720	772	822	924	
Resolution		infinite																								
Recommended Cursor Current	μA	< 1																								
Temperature Range	$^{\circ}C$	-30 to +100																								
Dimensions (A)	mm	166	191	216	246	266	291	318	343	368	393	419	484	509	534	561	609	673	723	799	849	899	983	1054	1174	
Dimensions (C)	mm	223	248	273	303	323	348	375	400	425	450	476	541	566	591	618	666	730	780	856	906	956	1040	1111	1231	