

- Extremely robust and compact specifically for Motorsports
- Aluminium housing sealed to IP67
- Elastomer damped wipers for shock and vibration durability
- Self-aligning pivot bearing mountings with optional snap-on version for quick installation/removal
- Extended 'S' sealing option for enhanced reliability and longer life
- Wide choice of options



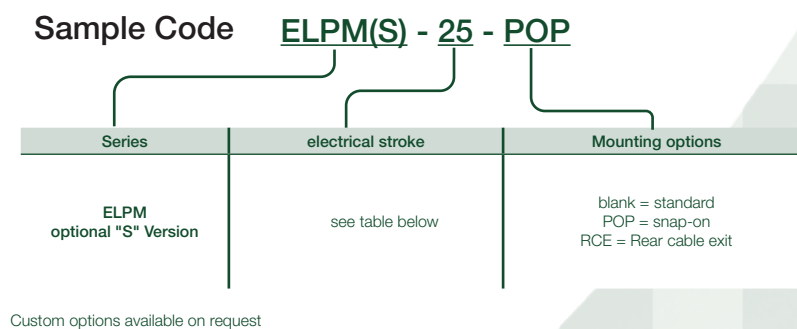
The motorsports proven ELPM series linear position sensor provides long life and extremely reliable performance for harsh environment position measurement applications such as ride height, suspension and steering angle measurement. The compact 9.5 mm diameter sensor includes a conductive plastic resistance element technology with multi damped wipers that maintains complete and even contact with very low electrical noise, even under the most arduous physical and environmental conditions. The IP67 sealing system employed in the design may be enhanced with the extended 'S' sealing option for improved reliability and endurance where unpredictable wet and hostile environmental conditions exist. The ELPM series offers stroke lengths from 25 to 175 mm in convenient increments with self aligning pivot bearing mountings or optional snap-on mountings with the ELPM-Pop option for fast installation or removal. Further options include a spring return version as well as customer specified mounting and electrical connector options on request.

## Specifications

<b>Electrical stroke</b>	25 to 175 mm (7 range options)	<b>Mechanical life</b>	> 25 x 10 <sup>6</sup> operations
<b>Mechanical stroke</b>	As electrical stroke	<b>Sealing</b>	IP67 (optional 'S' version for extended IP67 performance)
<b>Independent linearity</b>	Typically +/- 1%, Improved linearity upon request	<b>Mounting</b>	Standard version: Rod end bearings POP: snap on RCE: rear cable exit
<b>Max. voltage</b>	24 V DC	<b>Cable type /length</b>	24 AWG Raychem 55M wire, FDR25 sleeve / 500 mm (alternatives on request)
<b>Recommended wiper current</b>	< 10µA	<b>Operational speed</b>	10 m/sec max.
<b>Power rating</b>	0.25W at 40° C		
<b>Temperature range</b>	ELPM + ELPM-RCE: -30° C to +150° C (175° C short term) ELPM-Pop: -30° C to +140° C		

## Ordering information

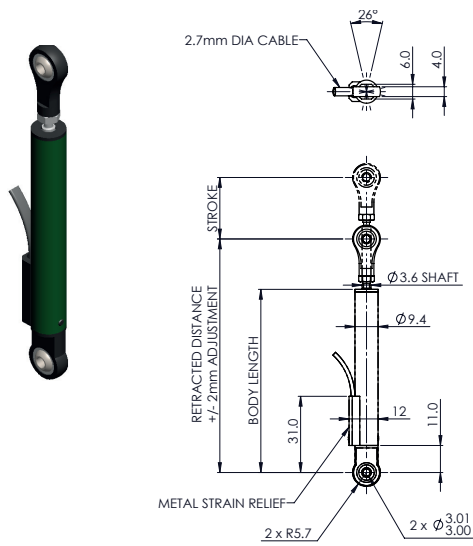
(Please use the characters in the chart below to construct your product code)



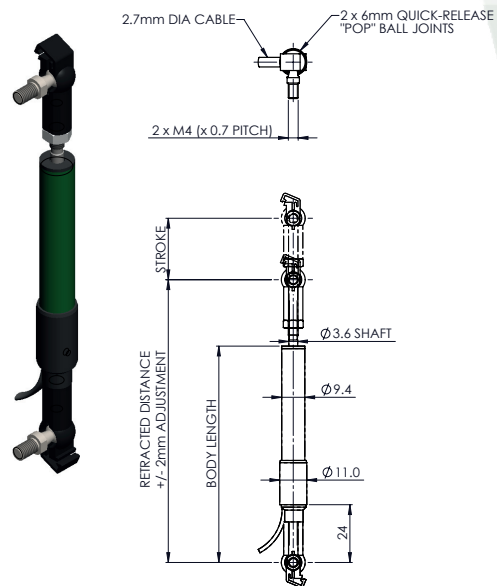
Order code	Unit	ELPM and ELPMS extended sealing option							ELPM-Pop and ELPMS-Pop extended sealing option						
		25	50	75	100	125	150	175	25	50	75	100	125	150	175
<b>Electrical stroke</b>	mm	25	50	75	100	125	150	175	25	50	75	100	125	150	175
<b>Retracted mounting distance</b>	mm	95	120	145	178	203	228	253	115	149	175	205	230	260	285
<b>Body length</b>	mm	75	100	125	153	178	203	228	88	113	138	173	198	228	253
<b>Resistance +/- 20%</b>	kΩ	2.5	5.0	7.5	10.0	10.0	10.0	10.0	2.5	5.0	7.5	10.0	10.0	10.0	10.0
<b>Weight</b>	gm	26	29	33	37	43	46	51	23	27	31	35	41	44	57

## Dimensions (mm)

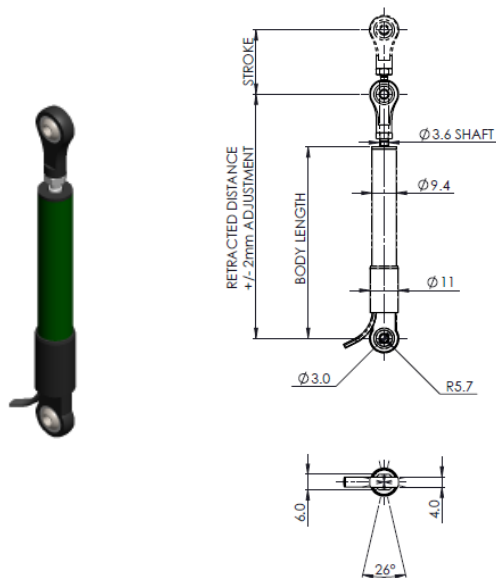
### ELPM and ELPMS extended sealing option



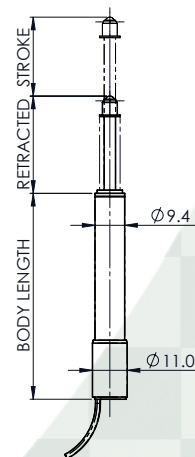
### ELPM-Pop and ELPMS-Pop extended sealing option



### ELPM-RCE Version



### ELPM-SO Version with spring loaded shaft\*



\* Spring loaded shaft and custom options available on request

## Wiring connections

