



Linear potentiometer ELP

- Outstanding repeatability
- Shock and vibration resistant
- Robust and long life



The ELP linear potentiometers series is especially designed for applications with high demands for small size and low weight in combination with high technical requirements.

These slim line linear transducers have a diameter of 9.5mm, a lightweight housing, good sealing and are available in stroke lengths from 12.5 mm to 150 mm.

The ELP use proven track and wiper technology, which provides extended life expectancy, which is also able to withstand temperatures up to 175 °C.

The ELP is mounted using rod end bearings, which enables it to be used in a number of applications.

Specifications

Performance

Life cycles	> 25 million
Repeatability	< ± 0.01 mm
Operating speed	10 m/s max.
Linearity	± 0.5 %
Shock resistance	50G, 10ms

Environment

Temperature range	-40° to +150° continuous, to +175°C short-term
Schutzart	see table on backside

Electrics

Resistance	see table on backside
Recommended wiper current	< 10 µA

Mechanics

Mech. stroke	electrical stroke + 1,5 mm
track type	conductive plastic
Thread size	M3 (ELP / ELPM) M4 (ELPM-POP)
Cable length	500 mm
Cable type	24 AWG Raychem 55M wire with Viton sleeve
Weight	see table on backside

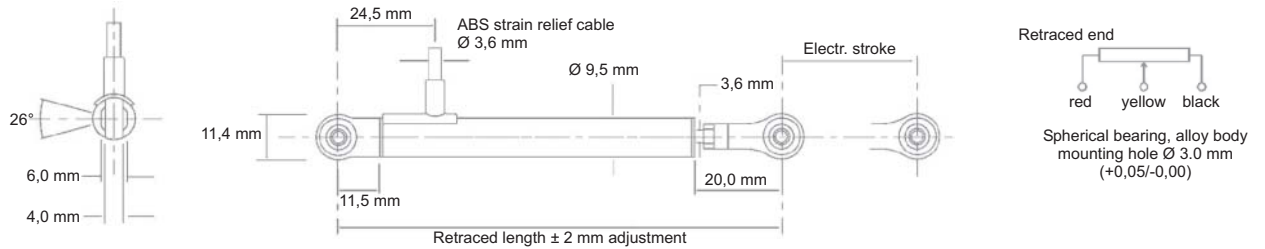
ELP

Industry



Typ	ELP 12.5	ELP 25	ELP 50	ELP 75	ELP 100	ELP 125	ELP 150
Electrical stroke	12,5 mm	25,0 mm	50,0 mm	75,0 mm	100,0 mm	125,0 mm	150,0 mm
Length	62,5 mm	75 mm	100 mm	125 mm	153 mm	178 mm	203 mm
Resistance ± 20%	1,25 KΩ	2,5 KΩ	5,0 KΩ	7,5 KΩ	6,5 KΩ	8 KΩ	10,0 KΩ
Retraced length*	82,5 mm	95 mm	120 mm	145 mm	178 mm	203 mm	228 mm
Weight	24 g	26 g	29 g	33 g	37 g	43 g	46 g
Sealing	IP 65						

* Alternative Mounting distances available



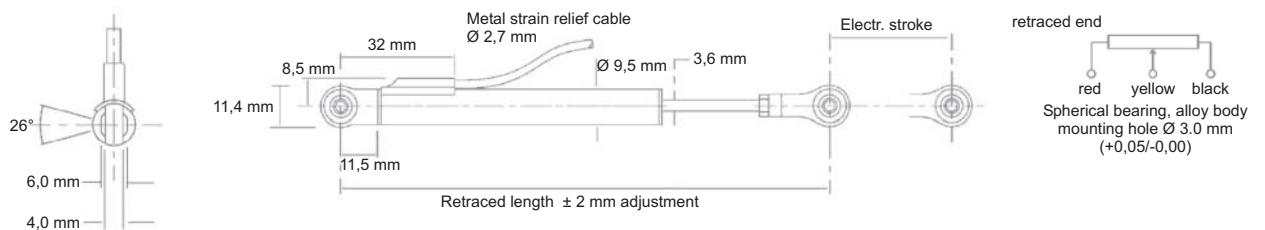
ELPM

Motor sport



Typ	ELPM 12.5	ELPM 25	ELPM 50	ELPM 75	ELPM 100	ELPM 125	ELPM 150
Electrical stroke	12,5 mm	25,0 mm	50,0 mm	75,0 mm	100,0 mm	125,0 mm	150,0 mm
Length	62,5 mm	75 mm	100 mm	125 mm	153 mm	178 mm	203 mm
Resistance ± 20%	1,25 KΩ	2,5 KΩ	5,0 KΩ	7,5 KΩ	6,5 KΩ	8 KΩ	10,0 KΩ
Retraced length*	82,5 mm	95 mm	120 mm	145 mm	178 mm	203 mm	228 mm
Weight	24 g	26 g	29 g	33 g	37 g	43 g	46 g
Sealing	IP 67						

* Alternative Mounting distances available



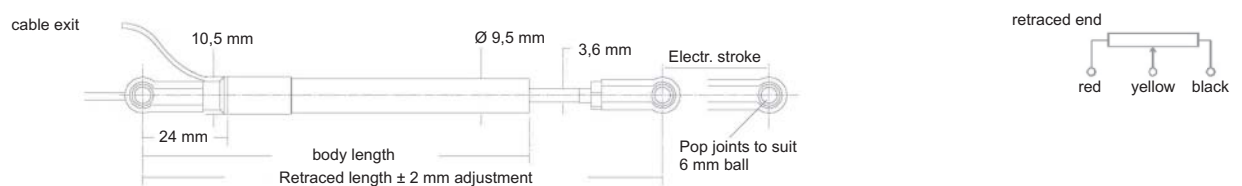
ELPM-POP

Motor sport



Typ	ELPM-Pop 12.5	ELPM-Pop 25	ELPM-Pop 50	ELPM-Pop 75	ELPM-Pop 100	ELPM-Pop 125	ELPM-Pop 150
Electrical stroke	12,5 mm	25,0 mm	50,0 mm	75,0 mm	100,0 mm	125,0 mm	150,0 mm
Length	76 mm	88 mm	113 mm	138 mm	173 mm	198 mm	228 mm
Resistance ± 20%	1,25 KΩ	2,5 KΩ	5,0 KΩ	7,5 KΩ	6,5 KΩ	8 KΩ	10,0 KΩ
Retraced length*	102,5 mm	115 mm	149 mm	175 mm	205 mm	230 mm	260 mm
Weight	20 g	23 g	27 g	31 g	35 g	41 g	44 g
Sealing	IP 67						

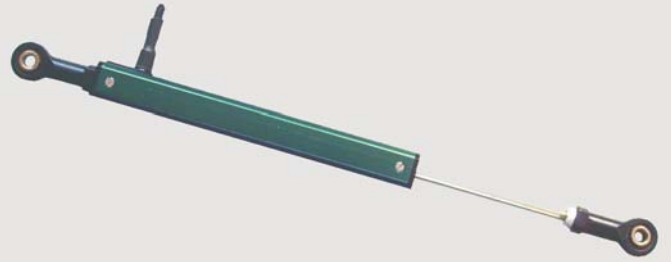
* Alternative Mounting distances available





Linear potentiometer VLP

- Outstanding repeatability
- Shock and vibration resistant
- Robust and long life



The VLP linear potentiometers series is designed for applications with high technical requirements.

These linear transducers have a diameter of 15 mm, good sealing and are available in stroke lengths from 25 mm to 290 mm.

The proven track and wiper technology, which provides extended life expectancy, which is also able to withstand temperatures up to 175 °C.

The VLP is mounted using rod end bearings, which enables it to be used in a number of applications.

Specifications

Performance

Life cycles	> 25 million
Repeatability	< ± 0.01 mm
Operating speed	10 m/s max.
Linearity	see table on backside
Shock resistance	50G, 10ms

Environment

Temperature range	-30° to +150° continuous, to +175°C short-term
Schutzart	see table on backside

Electrics

Resistance	see table on backside
Max excitation voltage	42 VDC

Mechanics

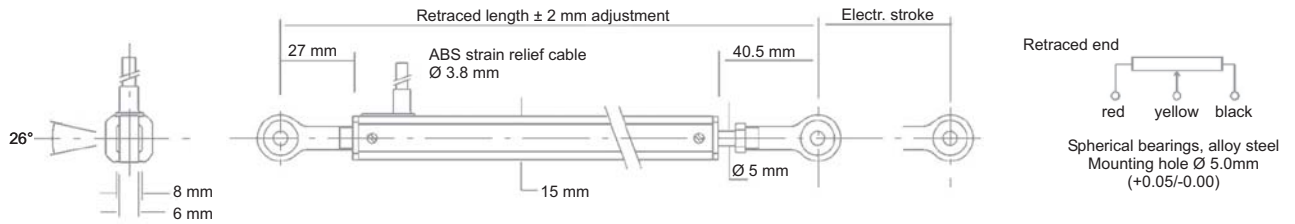
Mech. stroke	electrical stroke + 1,5 mm
track type	conductive plastic
Thread size	M5
Cable length	600 mm
Cable type	Raychem 55M, 24 AWG

VLP Industry



Type	VLP 25	VLP 50	VLP 75	VLP 100	VLP 150 SE	VLP 150	VLP 200	VLP 250	VLP 290
Electrical stroke	27 mm	52 mm	77 mm	102 mm	152 mm	152 mm	202 mm	252 mm	292 mm
Resistance ± 20%	2.5 KΩ	5 KΩ	5 KΩ	5 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ
Retraced length*	173 mm	198 mm	223 mm	248 mm	273 mm	298 mm	351 mm	401 mm	464 mm
Linearity	0.2 %	0.2 %	0.2 %	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %
Sealing	IP 65								

* Alternative Mounting distances available

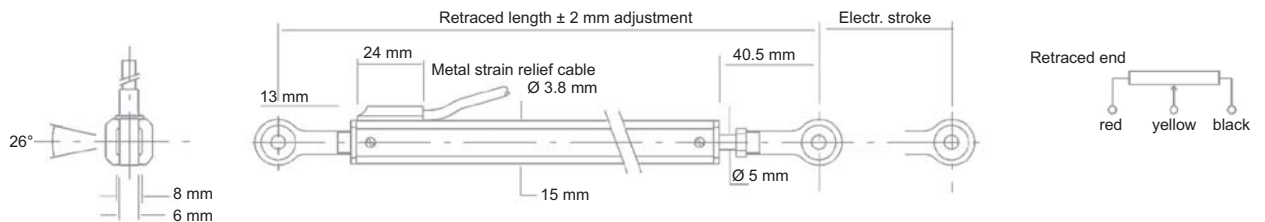


VLPM Motor sport



Type	VLPM 25	VLPM 50	VLPM 75	VLPM 100	VLPM 150 SE	VLPM 150	VLPM 200	VLPM 250	VLPM 290
Electrical stroke	27 mm	52 mm	77 mm	102 mm	152 mm	152 mm	202 mm	252 mm	292 mm
Resistance ± 20%	2.5 KΩ	5 KΩ	5 KΩ	5 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ	10 KΩ
Retraced length*	173 mm	198 mm	223 mm	248 mm	273 mm	298 mm	351 mm	401 mm	464 mm
Linearity	0.2 %	0.2 %	0.2 %	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %
Sealing	IP 67								

* Alternative Mounting distances available



VLP SRF Spring return



Type	VLPSRF 25	VLPSRF 50	VLPSRF 75	VLPSRF 100	VLPSRF 150SE	VLPSRF 150
Electrical stroke	27 mm	52 mm	77 mm	102 mm	152 mm	152 mm
Resistance ± 20%	2.5 KΩ	5 KΩ	5 KΩ	5 KΩ	10 KΩ	10 KΩ
Retraced length	173 mm	198 mm	223 mm	248 mm	273 mm	298 mm
Linearity	0.2 %	0.2 %	0.2 %	0.1 %	0.1 %	0.1 %
Sealing	IP 67					

