



## Position Measurement Sensors



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## General Catalogue

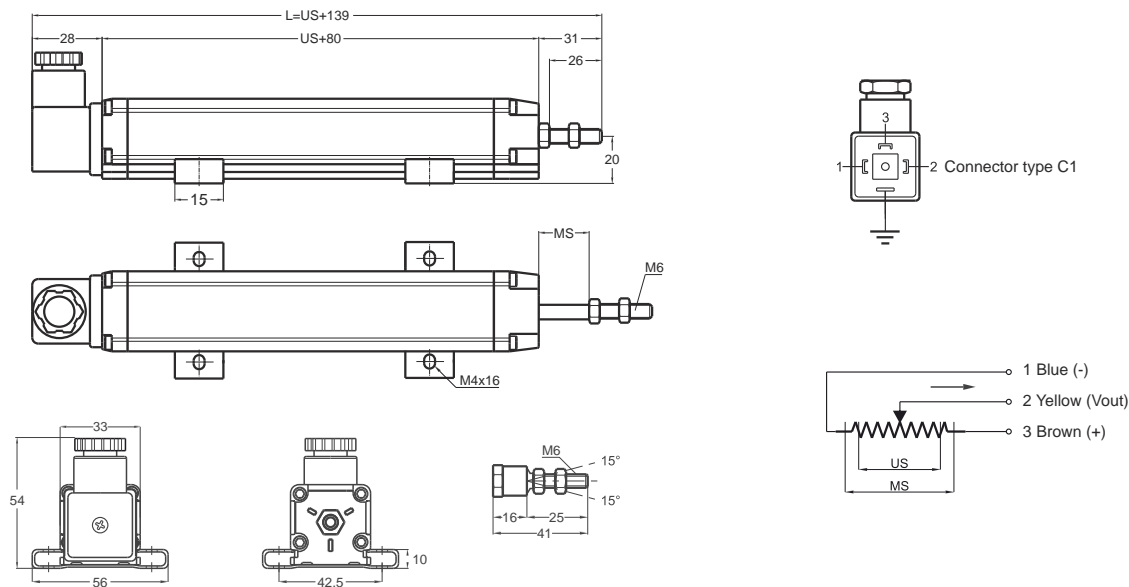
# Linear Potentiometer

- Measuring range 30 - 1000 mm
- Long mechanical life 100 million movements
- Excellent repeatability <0.01 mm
- Infinite resolution
- 5 kOhm : 30 ... 600 mm
- 10 kOhm : 650 ... 1000 mm



## Technical specifications

Measurement stroke	30 to 1000 mm
Linearity	±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	5 kOhm : 30 ... 600 mm 10 kOhm : 650 ... 1000 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø6 mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



RTL (mm)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
US (Usefull Stroke)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
MS ±0.5 (Mechanical Stroke)	33	53	73	103	128	133	153	178	203	228	253	278	303	328	353	373	403	453	503	553	603	653	703	753	803	853	903	1003
L (Total Length)	169	189	214	239	264	269	289	314	339	364	389	414	439	464	489	514	539	589	639	689	739	789	839	889	939	989	1039	1139

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)	Connector / Cable
(example) RTL	500	D	5K	C1
RTL	30 ... 1000 mm	D: ±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)	5K: 5 kOhm 10K: 10 kOhm	C1: 4 pin connector

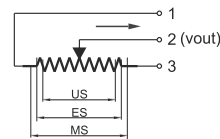
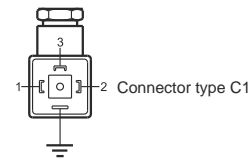
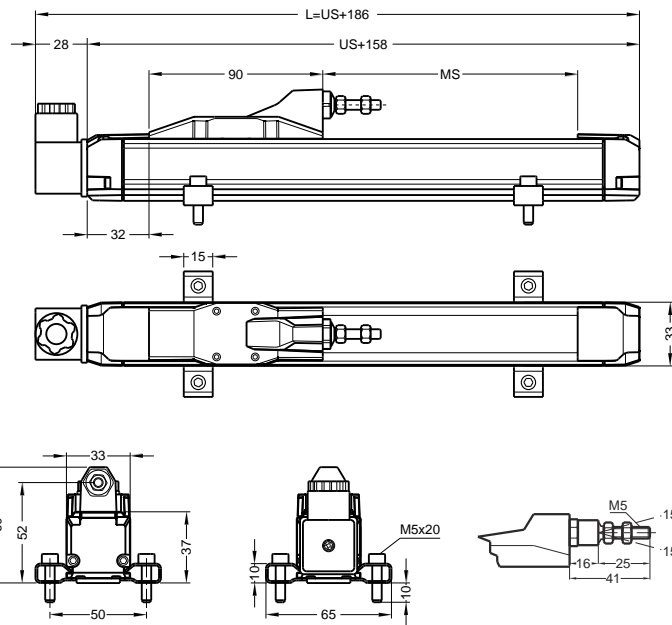
## Linear Potentiometer

Measuring range 100 - 1950 mm  
 Long mechanical life 100 million movements  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 5 kOhm : 100 ... 600 mm  
 10 kOhm : 650 ... 1000 mm  
 20 kOhm : 1250 ... 1950 mm



### Technical specifications

Measurement stroke	100 to 1950 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	5 kOhm : 100 ... 600 mm 10 kOhm : 650 ... 1000 mm 20 kOhm : 1250 ... 1950 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	< 1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector
Displacement speed	< 1,5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Mechanical fixing	Variable brackets
IP degree	IP 40 (if mounted upside down IP 53)
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



LPH (mm)	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000	1250	1500	1750	1950
US (Useful Stroke)	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000	1250	1500	1750	1950
MS (Mechanical Stroke)	104	129	134	154	179	204	229	254	279	304	329	354	379	404	454	504	554	604	654	704	754	804	854	904	1004	1254	1504	1754	1954
L (Total Length)	271	296	301	321	346	371	396	421	446	471	496	521	546	571	621	671	721	771	821	871	921	971	1021	1071	1171	1421	1671	1921	2121

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)	Connector / Cable
(example) RPH	500	D	5K	C1
RPH	100 ... 1950 mm	D: ±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)	5K: 5 KOhm 10K: 10 KOhm 20K: 20 KOhm	C1: 4 pin connector

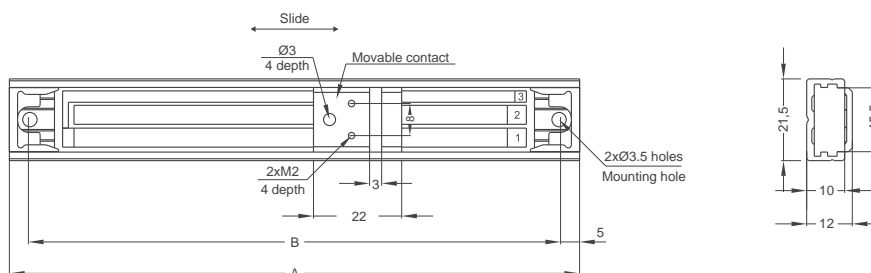
# Linear Potentiometer

Measuring range 50 - 1000 mm  
 Long mechanical life 100 million movement  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 5 kOhm : 50 ... 600 mm  
 10 kOhm : 650 ... 1000 mm



## Technical specifications

Measurement stroke	50 to 1000 mm
Linearity	±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	5 kOhm : 50 ... 600 mm 10 kOhm : 650 ... 1000 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	21,5 mm x 10 mm
Case material	Anodized aluminium
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



OPH (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000
A±1	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1050
B±05	90	140	190	240	290	340	390	440	490	540	590	640	690	740	790	840	890	940	1040

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)
(example) OPH	500	D	5K
OPH	50 ... 1000 mm	D: ±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)	5K: 5 kOhm 10K: 10 kOhm

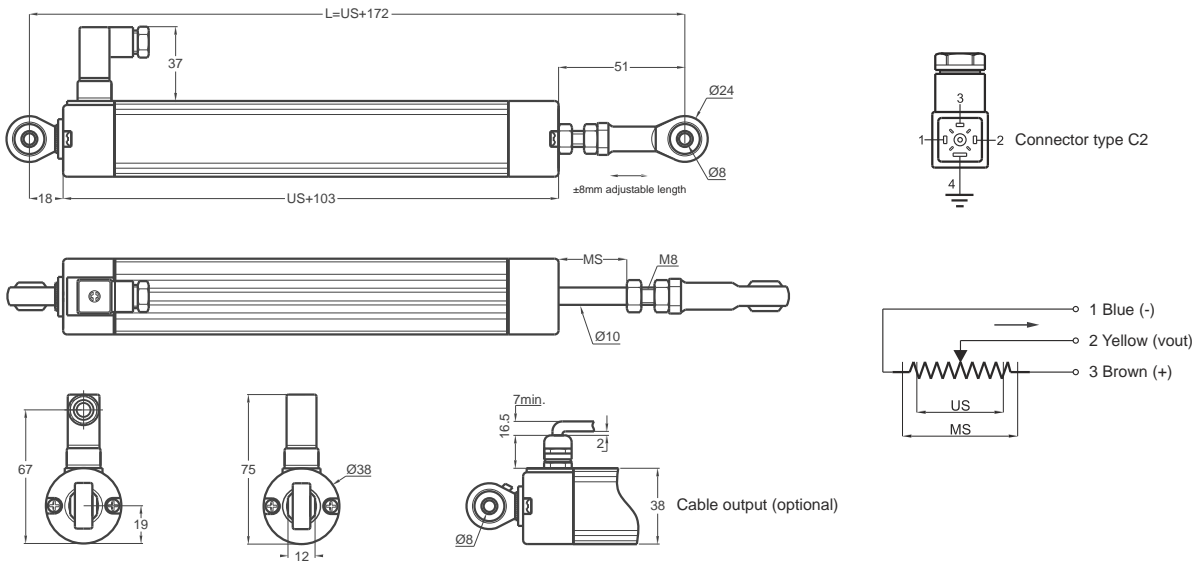
## Linear Potentiometer

Measuring range 50 - 800 mm  
 Long mechanical life 100 million movements  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 5 kOhm : 50 ... 600 mm  
 10 kOhm : 650 ... 800 mm



### Technical specifications

Measurement stroke	50 to 800 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	5 kOhm : 50 ... 600 mm 10 kOhm : 650 ... 800 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector (standard), cable (optional)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø38 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø10 mm
Mechanical fixing	Ball joints on the both sides
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



LPC (mm)	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	800
US (Usefull Stroke)	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	800
MS (Mechanical Stroke)	54	79	104	129	134	154	179	204	229	254	279	304	329	354	379	404	454	504	554	604	654	704	804
L (Total Length)	222	247	272	297	302	322	347	372	397	422	447	472	497	522	547	572	622	672	722	772	822	872	972

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)	Connector / Cable
(example) LPC	500	D	5K	C2
LPC	50 ... 800 mm	D: ±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)	5K: 5 kOhm 10K: 10 kOhm	C2 : 4 pin connector 1M : 1 meter cable 2M5: 2,5 meter cable

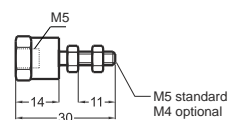
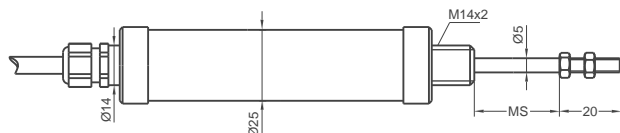
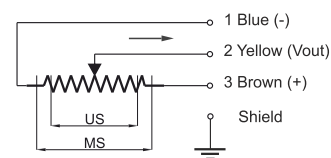
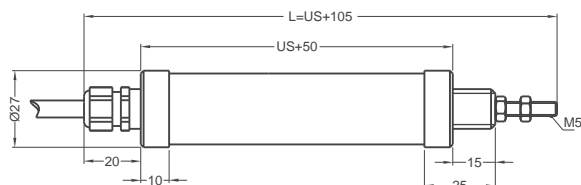
# Linear Potentiometer

Measuring range 25 - 400 mm  
 Long mechanical life 100 million movements  
 Excellent repeatability <0.01 mm  
 2 kOhm : 25 ... 50 mm  
 5 kOhm : 75 ... 400 mm



## Technical specifications

Measurement stroke	25 to 400 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	2 kOhm : 25 ... 50 mm 5 kOhm : 75 ... 400 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	1 m cable (standard)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø25 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



LSC(mm)	25	50	75	100	125	150	175	200	250	300	350	400
US (Usefull Stroke)	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechanical Stroke)	28	53	78	103	128	153	178	203	253	303	353	403
L (Total Length)	130	155	180	205	230	255	280	305	355	405	455	505

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) LSC	175	D	5K	1M
LSC	25 ... 400 mm	D: ±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M : 1 meter cable (standard) 1M5: 1,5 meter cable 2M5: 2,5 meter cable

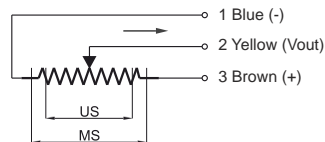
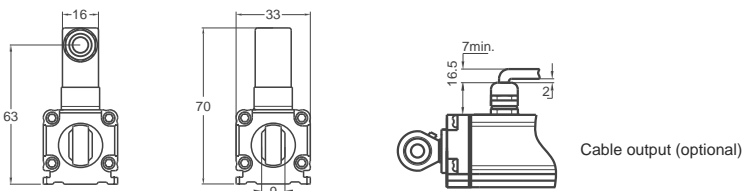
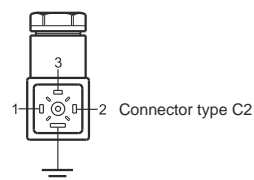
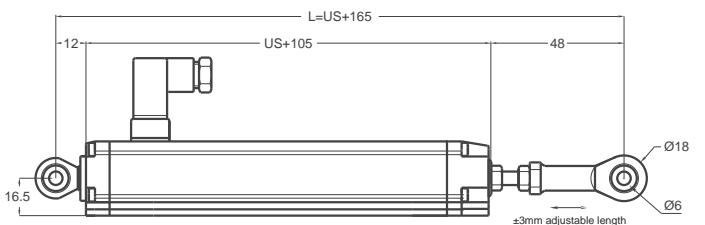
## Linear Potentiometer

Measuring range 50 - 600 mm  
 Long mechanical life 100 million movements  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 5 kOhm: 50 ... 600 mm



### Technical specifications

Measurement stroke	50 to 600 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	5 kOhm: 50 ... 600 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector (standard), cable (optional)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø6 mm
Mechanical fixing	Ball joints on the both sides
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



RTM (mm)	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600
US (Usefull Stroke)	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600
MS (Mechanical Stroke)	54	79	104	129	134	154	179	204	229	254	279	304	329	354	379	404	454	504	554	604
L (Total Length)	215	240	265	290	295	315	340	365	390	415	440	465	490	515	540	565	615	665	715	765

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) RTM	500	D	5K	C2
RTM	50 ... 600 mm	D: ±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)	5K: 5 kOhm	C2 : 4 pin connector (standard) 1M : 1 meter cable 2M5: 2,5 meter cable

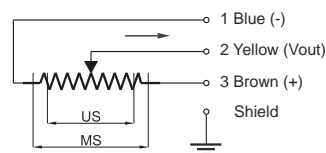
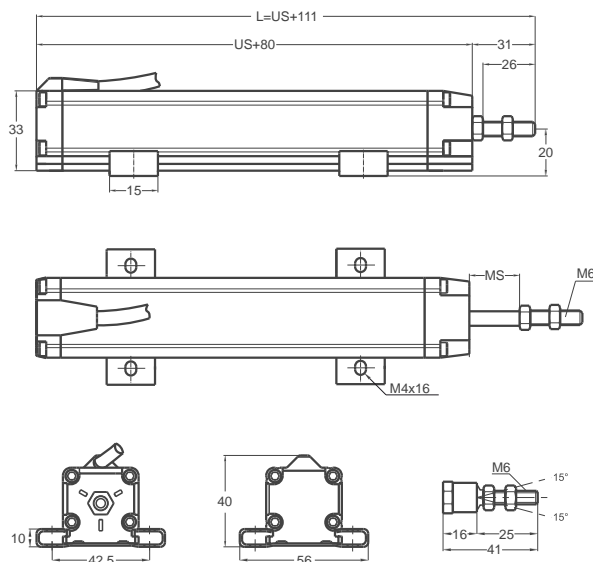
# Linear Potentiometer

Measuring range 30 - 1000 mm  
 Long mechanical life 100 million movements  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 5 kOhm : 30 ... 600 mm  
 10 kOhm : 650 ... 1000 mm



## Technical specifications

Measurement stroke	30 to 1000 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01mm
Resolution	Infinite
Resistance	5 kOhm : 30 ... 600 mm 10 kOhm : 650 ... 1000 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	1 m cable (standard)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø6 mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



RTK (mm)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
US (Usefull Stroke)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
MS (Mechanical Stroke)	34	54	79	104	129	133	153	178	203	228	253	278	303	328	353	373	403	453	503	553	603	653	703	753	803	853	903	1003
L (Total Length)	141	161	186	211	236	241	261	286	311	336	361	386	411	436	461	486	511	561	611	661	711	761	811	861	911	961	1011	1111

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) RTK	500	D	5K	1M
RTK	30 ... 1000 mm	D: ±%0,05 (>200 mm) ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	5K: 5 kOhm 10K: 10 kOhm	1M : 1 meter cable (standard) 2M5: 2,5 meter cable



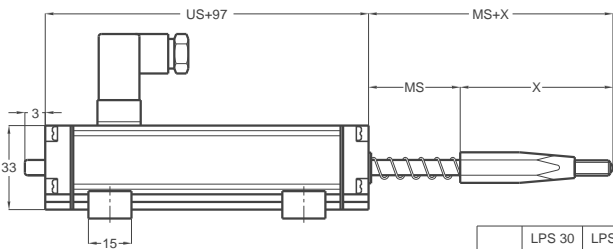
## Linear Potentiometer Spring Return

Measuring range 30 - 150 mm  
 Long mechanical life 100 million movements  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 5 kOhm: 30 ... 150 mm

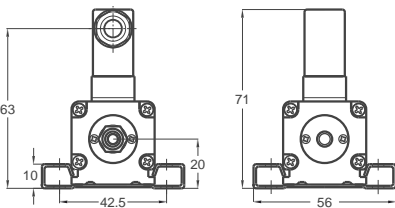
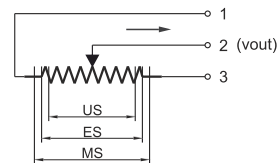
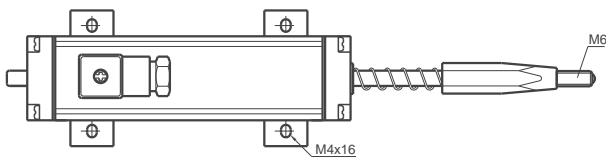
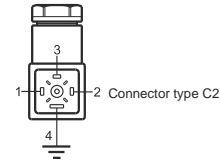


### Technical specifications

Measurement stroke	30 to 150 mm
Linearity	±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	5 kOhm: 30 ... 150 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	4 pin connector
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø6 mm
Mechanical fixing	Variable brackets
IP degree	IP 54
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



	LPS 30	LPS 50	LPS 75	LPS 100	LPS 150
X	63 mm	68 mm	78 mm	88 mm	108 mm



LPS(mm)	30	50	75	100	125	150
US (Usefull Stroke)	30	50	75	100	125	150
MS (Mechanical Stroke)	34	54	79	104	129	154
L (Total Length)	227	272	332	392	452	512

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)	Connector / Cable
(example) LPS	100	D	5K	C2
LPS	30 ... 150 mm	D: ±%0,05 (>200 mm) ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	5K: 5 kOhm	C2: 4 pin connector

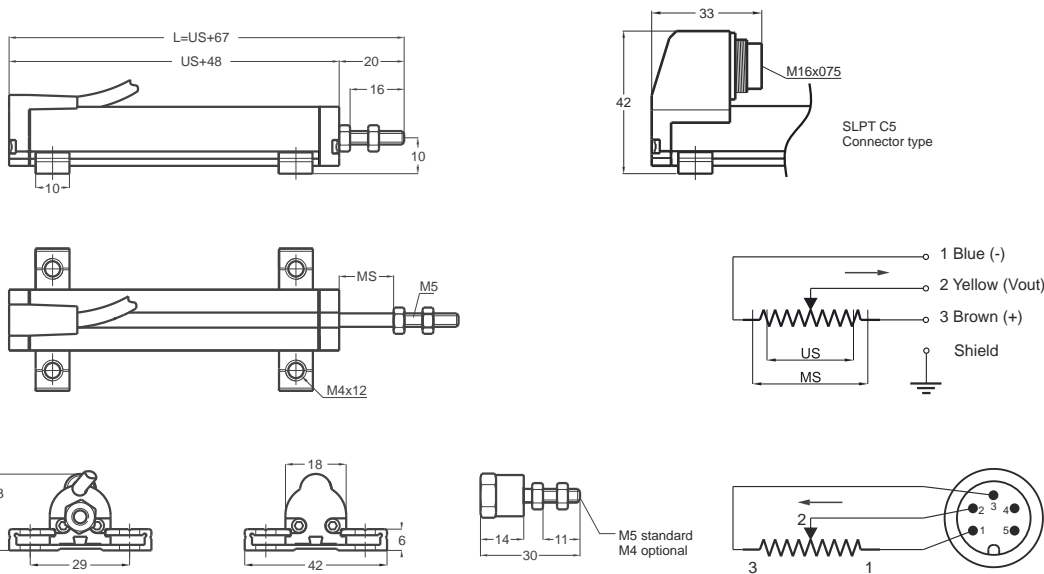
## Linear Potentiometer Slim Body Series

Measuring range 10 - 400 mm  
 Long mechanical life  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 2 kOhm : 10 ... 50 mm  
 5 kOhm : 75 ... 400 mm



### Technical specifications

Measurement stroke	10 to 400 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm: 10 ... 50 mm 5 kOhm: 75 ... 400 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

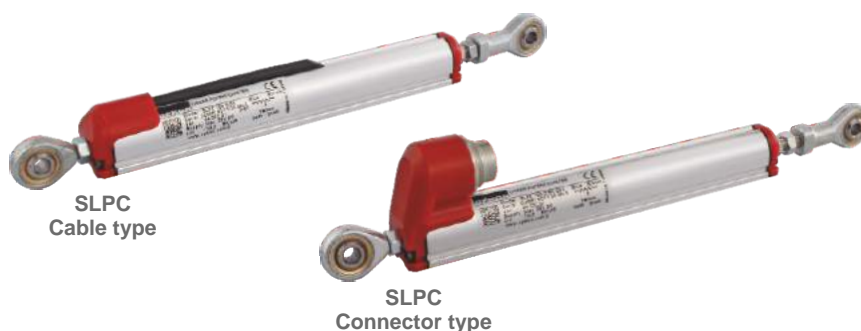


SLPT(mm)	10	25	50	75	100	125	150	175	200	250	300	350	400
US (Usefull Stroke)	10	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechanical Stroke)	13	28	53	78	103	128	153	178	203	253	303	353	403
L (Total Length)	78	93	118	143	168	193	218	243	268	318	368	418	468

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) SLPT	175	D	5K	1M
SLPT	10 ... 400 mm	D: ±%0,05 (>200 mm) ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M : 1 meter cable (standard) 1M5: 1,5 meter cable 2M : 2 meter cable C5 : Connector

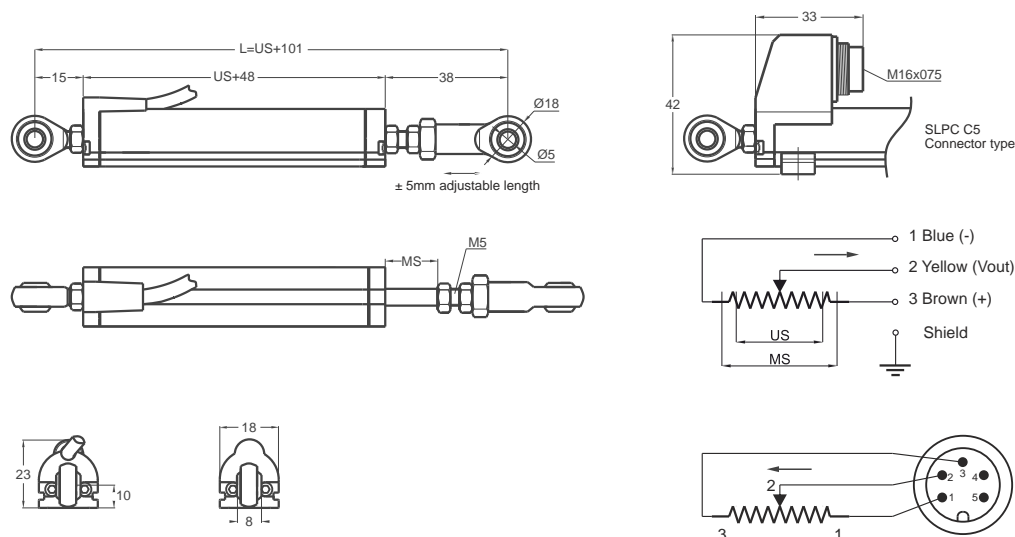
# Linear Potentiometer Slim Body Series

Measuring range 10 - 400 mm  
 Long mechanical life  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 2 kOhm : 10 ... 50 mm  
 5 kOhm : 75 ... 400 mm



### Technical specifications

Measurement stroke	10 to 400 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	2 kOhm : 10 ... 50 mm 5 kOhm : 75 ... 400 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Ball joints on the both sides
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



SLPC(mm)	10	25	50	75	100	125	150	175	200	250	300	350	400
US (Usefull Stroke)	10	25	50	75	100	125	150	175	200	250	300	350	400
MS (Mechanical Stroke)	13	28	53	78	103	128	153	178	203	253	303	353	403
L (Total Length)	111	126	151	176	201	226	251	276	301	351	401	451	501

Model	Measurement stroke (mm)	Linearity (%)	Resistance (KOhm)	Connector / Cable
(example) SLPC	175	D	5K	1M
SLPC	10 ... 400 mm	D: ±%0,05 (>200 mm) ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M : 1 meter cable (standard) 1M5: 1,5 meter cable 2M : 2 meter cable C5 : Connector

Linear Potentiometers  
 Linear Potentiometers Slim Body Series  
 Linear Potentiometers Conditioner Circuit  
 Magnetostrictive Position Sensors  
 Magnetic Linear Incremental Encoders  
 Draw Wire Potentiometers/Encoders  
 Optic Rotary Absolute Encoders  
 Magnetic Rotary Encoders  
 Optic Rotary Incremental Encoders

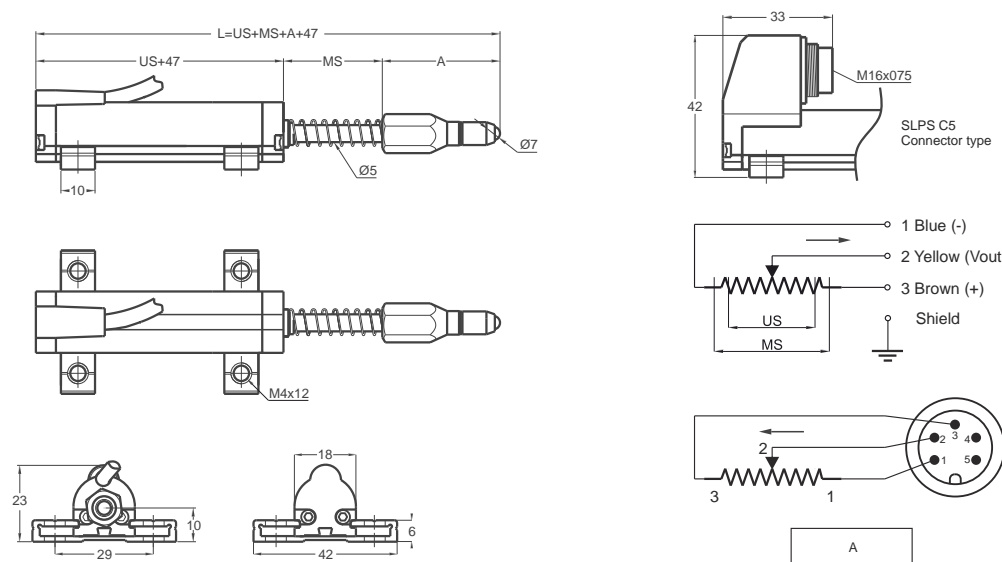
## Linear Potentiometer Spring Return, Slim Body Series

Measuring range 10 - 100 mm  
 Long mechanical life  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 2 kOhm : 10 ... 50 mm  
 5 kOhm : 75 ... 100 mm



### Technical specifications

Measurement stroke	10 to 100 mm
Linearity	±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm : 10 ... 50 mm 5 kOhm : 75 ... 100 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



	A					
SLPS 10	10	25	50	75	100	35
SLPS 25	10	25	50	75	100	35
SLPS 50	13	28	53	78	103	42
SLPS 75	13	28	53	78	103	42
SLPS 100	105	135	192	242	292	42

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) SLPS	100	D	5K	1M
SLPS	10 ... 100 mm	D: ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M : 1 meter cable (standard) 1M5: 1,5 meter cable 2M : 2 meter cable C5 : Connector

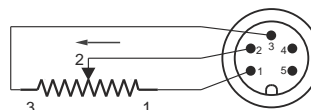
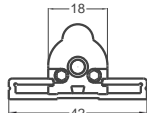
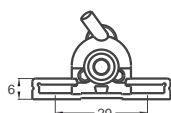
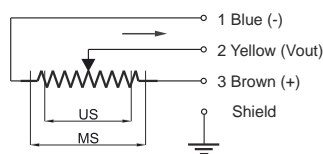
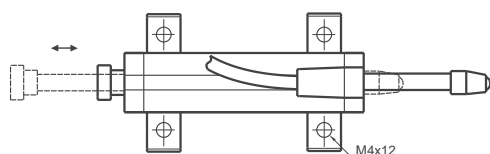
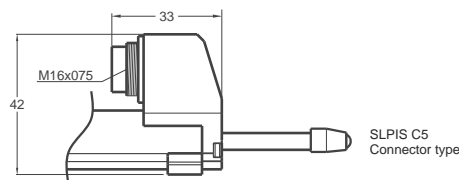
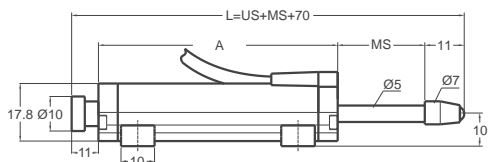
# Linear Potentiometer Internal Spring Return, Slim Body Series

Measuring range 10 - 100 mm  
 Long mechanical life  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 2 kOhm: 10 ... 50 mm  
 5 kOhm: 75 ... 100 mm



## Technical specifications

Measurement stroke	10 to 100 mm
Linearity	±%0,2 (75-100 mm), ±%0,5 (<75 mm)
Repeatability	< 0,01 mm
Resolution	Infinite
Resistance	2 kOhm: 10 ... 50 mm 5 kOhm: 75 ... 100 mm
Resistance tolerance	± %20
Recommended cursor current	<1 µA
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



SLPIS (mm)	10	25	50	75	100
US (Usefull Stroke)	10	25	50	75	100
MS (Mechanical Stroke)	13	28	53	78	103
L (Total Length)	93	123	179	235	288

A	
SLPIS 10	58
SLPIS 25	73
SLPIS 50	104
SLPIS 75	135
SLPIS 100	163

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) SLPIS	25	D	5K	1M
SLPIS	10 ... 100 mm	D: ±%0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M: 1 meter cable (standard) C5: Connector

## Linear Potentiometer Spring Return, Slim Body Series

Measuring range 10 - 100 mm  
 Long mechanical life  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 2 kOhm : 10 ... 50 mm  
 5 kOhm : 75 ... 100 mm

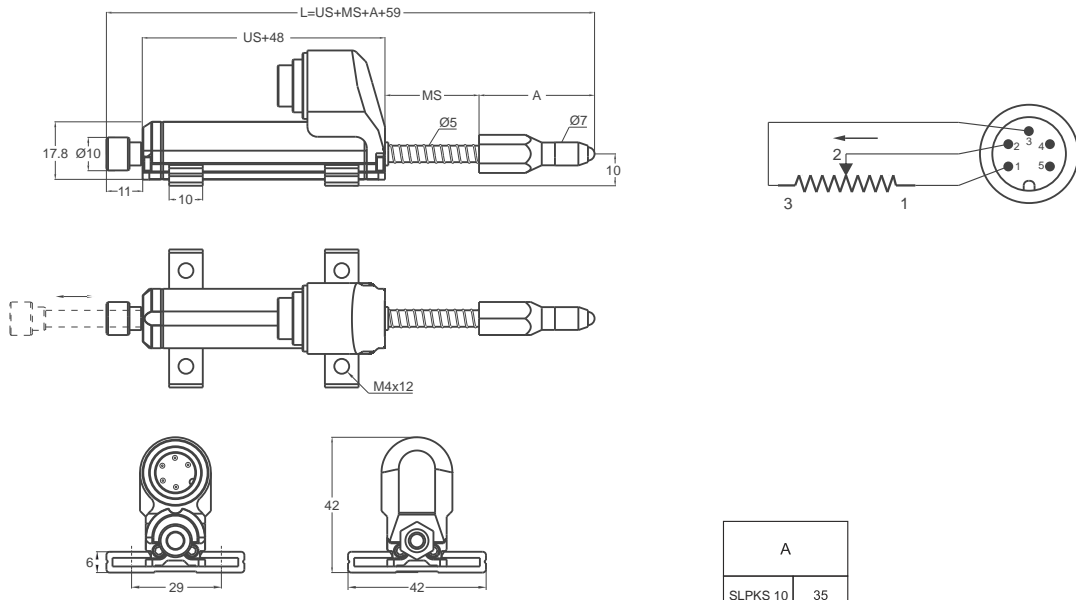


SLPKS  
Cable type

SLPKS  
Connector type

### Technical specifications

Measurement stroke	10 to 100 mm
Linearity	±%0,2 (75 - 130 mm), ±%0,5 (>75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm : 10 ... 50 mm 5 kOhm : 75 ... 100 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø5 mm
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



SLPKS(mm)	10	25	50	75	100
US (Usefull Stroke)	10	25	50	75	100
MS (Mechanical Stroke)	13	28	53	78	103
L (Total Length)	117	147	204	254	304

A	
SLPKS 10	35
SLPKS 25	35
SLPKS 50	42
SLPKS 75	42
SLPKS 100	42

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) SLPKS	100	D	5K	C5
SLPKS	10 ... 100 mm	D: ± %0,2 (75 - 130 mm) ± %0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M: 1 meter cable (standard) C5: Connector

Linear Potentiometers

Linear Potentiometers  
Slim Body Series

Linear Potentiometers  
Conditioner Circuit

Magnetostrictive Position  
Sensors

Magnetic Linear  
Incremental Encoders

Draw Wire  
Potentiometers/Encoders

Optic Rotary Absolute  
Encoders

Magnetic Rotary  
Encoders

Optic Rotary Incremental  
Encoders

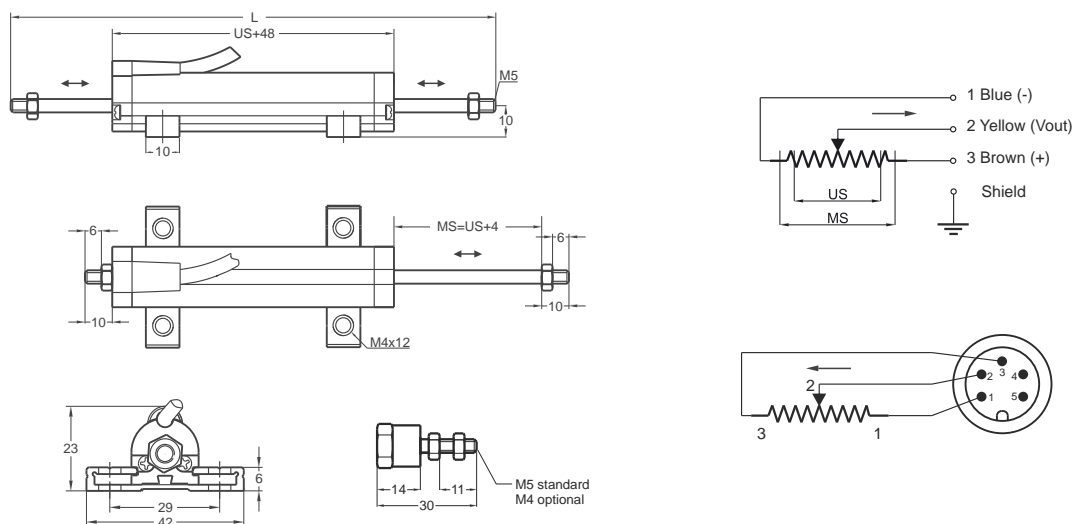
# Linear Potentiometer Slim Body Series

Measuring range 10 - 200 mm  
 Long mechanical life  
 Excellent repeatability <0.01mm  
 Infinite resolution  
 2 kOhm: 10 ... 50 mm  
 5 kOhm: 75 ... 200 mm



### Technical specifications

Measurement stroke	10 to 200 mm
Linearity	±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm: 10 ... 50 mm 5 kOhm: 75 ... 200 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	< 1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Connector or 1 m cable output
Displacement speed	< 5m/s
Mechanical life	100 million movement
Case dimensions	Ø18 mm
Case material	Anodized aluminium
Rod diameter	Ø5 mm
Rod material	Stainless steel
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



SLPK(mm)	10	25	50	75	100	125	150	175	200
US (Usefull Stroke)	10	25	50	75	100	125	150	175	200
MS (Mechanical Stroke)	14	29	54	79	104	129	154	179	204
L (Total Length)	92	122	172	222	272	322	372	422	472

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) SLPK	150	D	5K	1M
SLPK	10 ... 200 mm	D: ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	2K: 2 kOhm 5K: 5 kOhm	1M : 1 meter cable (standard) 1M5: 1,5 meter cable 2M : 2 meter cable C5 : Connector

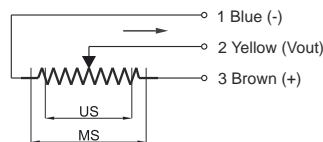
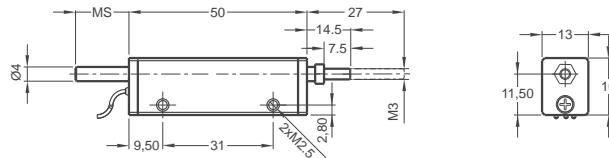
## Linear Potentiometer Ultra Slim Body Series

Measuring range 10 - 25 mm  
 Long mechanical life  
 Excellent repeatability <0.01 mm  
 Infinite resolution  
 2 kOhm: 10 ... 25 mm



### Technical specifications

Measurement stroke	10 to 25 mm
Linearity	±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Resistance	2 kOhm: 10 ... 25 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	<1 µA
Permissible applied voltage	28 VDC max.
Electrical connections	Cable output
Displacement speed	< 5 m/s
Mechanical life	50 million movement
Case dimensions	13x16 mm
Case material	Anodized aluminium
Rod material	Stainless steel
Rod diameter	Ø4 mm
Mechanical fixing	Screws
IP degree	IP 54
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



LMT(mm)	10	14	25
US (Usefull Stroke)	10	14	25
MS (Mechanical Stroke)	12	16	27
L (Total Length)	69	77	89

Model	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)	Connector / Cable
(example) LMT	25	D	2K	0M15
LMT	10 ... 25 mm	D: ±%0,5 (<75 mm)	2K: 2 kOhm	0M15: 0,15 meter cable (standard) 1M : 1 meter cable



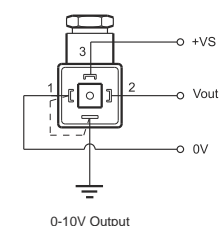
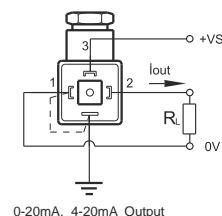
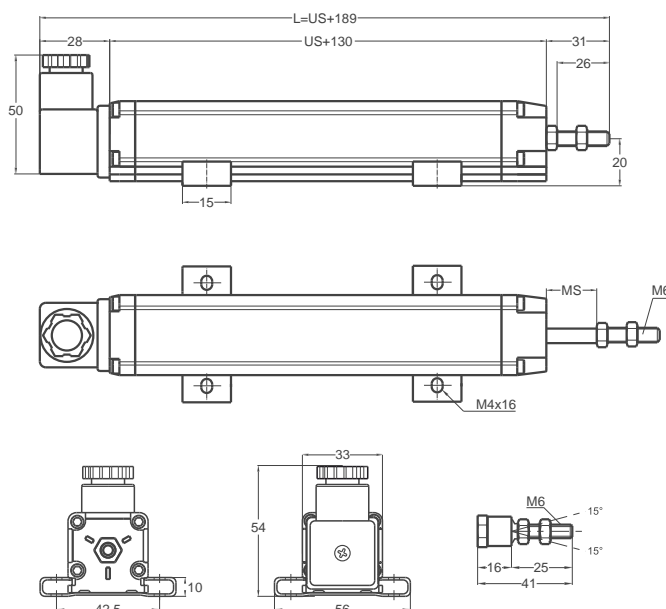
# Linear Potentiometer Internal Voltage / Current Conditioner Circuit

Internal electronic circuit  
 Measuring range 30 - 1000 mm  
 Output 4-20 mA, 0-20 mA, 0-10 V  
           20-4 mA, 20-0 mA, 10-0 V  
 Very stable output signal  
 Best solution for automation systems  
 Excellent repeatability



### Technical specifications

Measurement stroke	30 to 1000 mm
Linearity	± %0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Output	4-20 mA, 0-20 mA, 0-10 V / 20-4 mA, 20-0 mA, 10-0 V
Permissible applied voltage	15 - 30 VDC
Electrical connections	4 pin connector
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod diameter	Ø6 mm
Rod material	Stainless steel
Mechanical fixing	Variable brackets
IP degree	IP 65
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



ERTL (mm)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
US (Usefull Stroke)	30	50	75	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000
MS (Mechanical Stroke)	33	53	78	103	128	133	153	178	203	228	253	278	303	328	353	378	403	453	503	553	603	653	703	753	803	853	903	1003
L (Total Length)	219	239	264	289	314	319	339	364	389	414	439	464	489	514	539	564	589	639	689	739	789	839	889	939	989	1039	1089	1189

Model	Measurement stroke (mm)	Linearity (%)	Output	Connector / Cable
(example) ERTL	500	D	V10	C1
ERTL	30 ... 1000 mm	D: ±%0,05 (>200 mm) ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	I40: 4 - 20 mA    V10: 0 - 10 V I04: 20-4 mA    V01: 10-0 V I20: 0 - 20 mA I02: 20-0 mA	C1: 4 pin connector

Linear Potentiometers Slim Body Series  
 Linear Potentiometers Conditioner Circuit  
 Magnetostrictive Position Sensors  
 Magnetic Linear Incremental Encoders  
 Draw Wire Potentiometers/Encoders  
 Optic Rotary Absolute Encoders  
 Magnetic Rotary Encoders  
 Optic Rotary Incremental Encoders

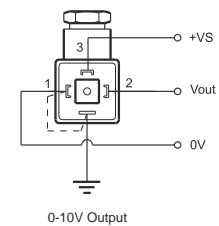
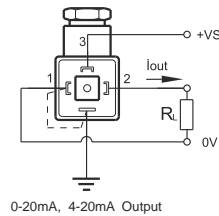
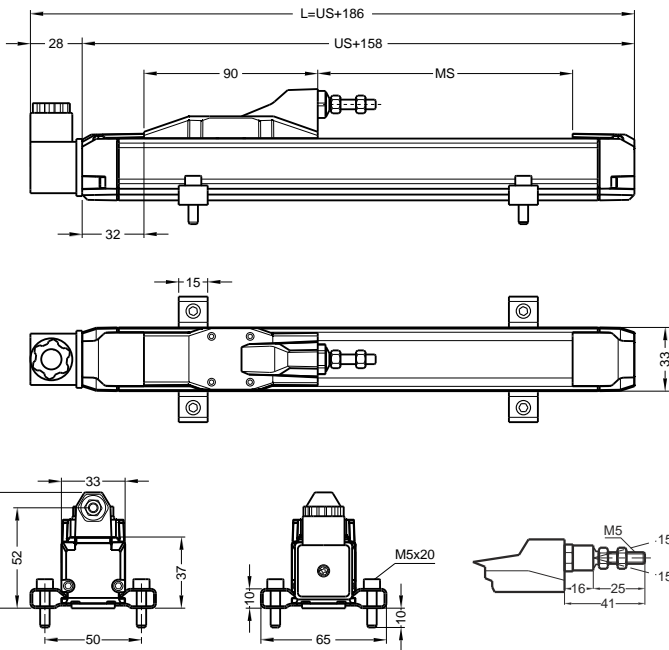
## Linear Potentiometer Internal Voltage / Current Conditioner Circuit

Internal electronic circuit  
 Measuring range 100 - 1950 mm  
 Output 4-20 mA, 0-20 mA, 0-10 V  
 20-4 mA, 20-0 mA, 10-0 V  
 Very low temperature drift  
 Very stable output signal  
 Excellent repeatability



### Technical specifications

Measurement stroke	100 to 1950 mm
Linearity	±%0,05 (>200 mm), ±%0,1 (130 - 200 mm), ±%0,2 (75 - 130 mm), ±%0,5 (<75 mm)
Repeatability	< 0.01 mm
Resolution	Infinite
Output	4 - 20 mA, 0 - 20 mA or 0 - 10 V
Permissible applied voltage	15 - 30 VDC
Electrical connections	4 pin connector
Displacement speed	< 1,5 m/s
Mechanical life	100 million movement
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Rod diameter	Ø6 mm
Rod material	Stainless steel
Mechanical fixing	Variable brackets
IP degree	IP 40 / IP 53 if mounted upside down
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C



ELPH (mm)	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000	1250	1500	1750	1950
US (Usefull Stroke)	100	125	130	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600	650	700	750	800	850	900	1000	1250	1500	1750	1950
MS (Mechanical Stroke)	104	129	134	154	179	204	229	254	279	304	329	354	379	404	454	504	554	604	654	704	754	804	854	904	1004	1254	1504	1754	1954
L (Total Length)	321	346	351	371	396	421	446	471	496	521	546	571	596	621	671	721	771	821	871	921	971	1021	1071	1121	1221	1471	1721	1921	2121

Model	Measurement stroke (mm)	Linearity (%)	Output	Connector / Cable
(example) ERPH	500	D	V10	C1
ERPH	100 ... 1950 mm	D: ±%0,05 (>200 mm) ±%0,1 (130 - 200 mm) ±%0,2 (75 - 130 mm) ±%0,5 (<75 mm)	I40: 4 - 20 mA I04: 20-4 mA I20: 0 - 20 mA I02: 20-0 mA V10: 0 - 10 V V01: 10-0 V	C1: 4 pin connector