

# LINEARPOTI

## **Linearpotentiometer, Cylindrical Housing**



### **Series LZW2**

- **Flexible mounting with brackets, bearings or flanges**
- **Range 25 - 250 mm**
- **Protection IP 60**
- **Displacement speed <10 m/s**
- **Linearity  $\pm 0,05\%$**
- **Infinite resolution**
- **Working temperature -30...+100°C**
- **Lifetime >25x10<sup>6</sup> meters or 100x10<sup>6</sup> cycles**
- **Electrical Connection  
3-core shielded cable**

## Technical data

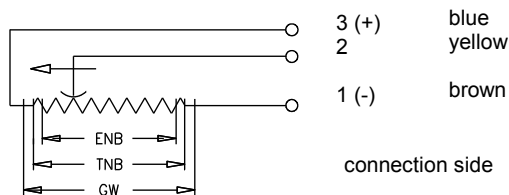
<b>range</b>	25/50/75/100/125/150/200/250 mm	<b>max. supply voltage</b>	see table
<b>protection</b>	IP 60	<b>temp. Coeff. Of the resistance</b>	-200 ±200 ppm/°C
<b>displacement speed</b>	<10 m/s	<b>eff. Temp. Coeff. Of output voltage.</b>	<1,5 ppm/°C
<b>displacement force</b>	<0,5 N	<b>electrical isolation</b>	>100 MOhm at 500 V
<b>linearity</b>	see table	<b>dielectric strength</b>	>500 Veff bei 50 Hz
<b>resolution</b>	unendlich	<b>working temperature</b>	-30...+100°C
<b>tolerance on resistance</b>	±20%	<b>storage temperature</b>	-50...+120°C
<b>recommended curser current</b>	<1 µA	<b>rod material</b>	stainless steel AISI 431
<b>max. curser current</b>	<10 mA	<b>case material</b>	anodised aluminium, nylon 66 GV 30
<b>max. dissipation at 40°C</b>	see table	<b>fixing</b>	LWZ2-S bracket LWZ2-A bearing LWZ2-F flange

## Dimension and Electrical Data

range		25	50	75	100	125	150	200	250
electrical stroke (ENB) +1/-0	mm	25	50	75	100	125	150	200	250
theoretical electr. stroke (TNB) ±1	mm	ENB + 1							
resistance	kOhm	1	2	3	4	5	6	8	10
linearity	±%	0,2	0,1	0,1	0,1	0,05	0,05	0,05	0,05
max. dissipation at 40°C (0 W at 120°C)	W	0,8	1,6	2,6	3				
max. power supply	V	20	40	60					
mechanical stroke (MH)	mm	ENB + 5							
case length (A) LWZ2-S	mm	83,5	108,5	133,5	158,5	183,5	208,5	258,5	308,5
case length (A) LWZ2-A	mm	110	135	160	185	210	235	285	335
case length (A) LWZ2-F	mm	83,5	108,5	133,5	158,5	183,5	208,5	258,5	308,5
recommended distance of brackets (B)	mm	47	72	97	122	147	172	222	272
min.distance of bearings (C)	mm	163	188	213	238	263	288	338	388
weight LWZ2-S	g	90	105	130	160	175	190	215	245
weight LWZ2-A	g	110	125	150	180	195	210	235	260
weight LWZ2-F	g	100	115	140	170	185	200	225	255

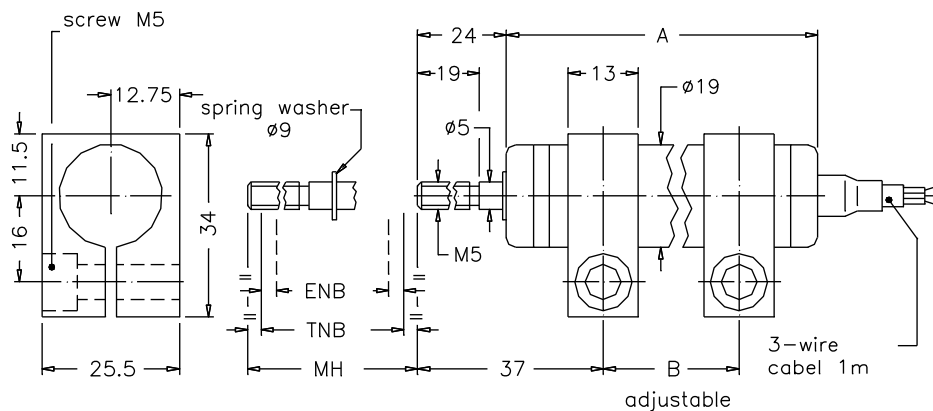
### connection

connector cable output

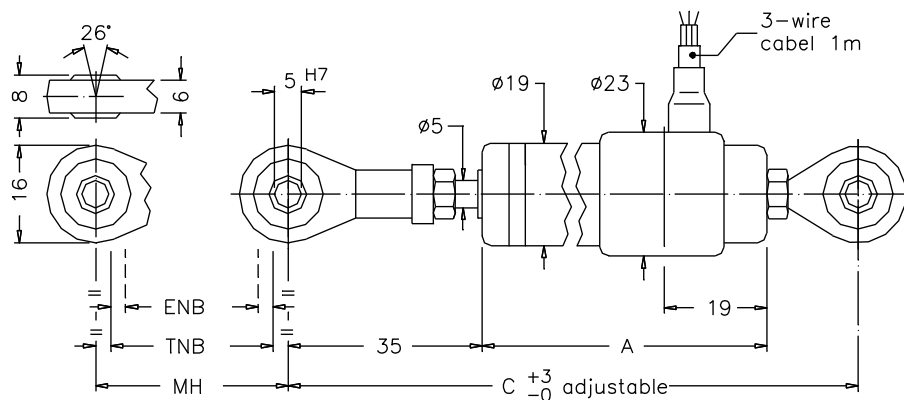


Dimensions

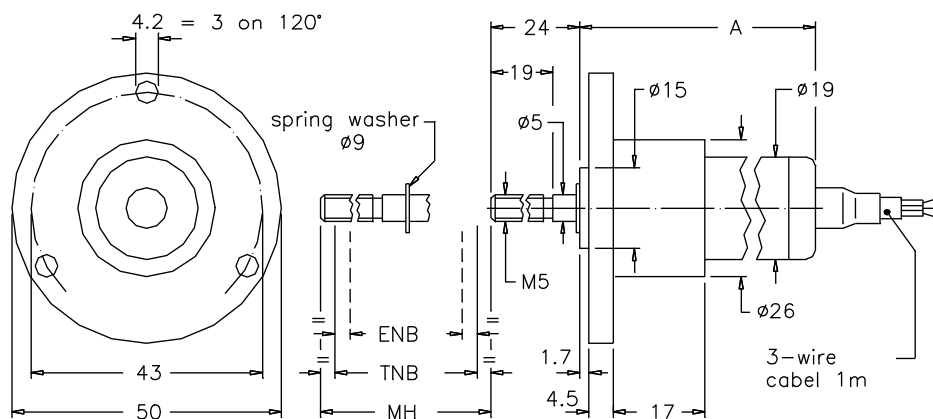
LZW2-S brackets



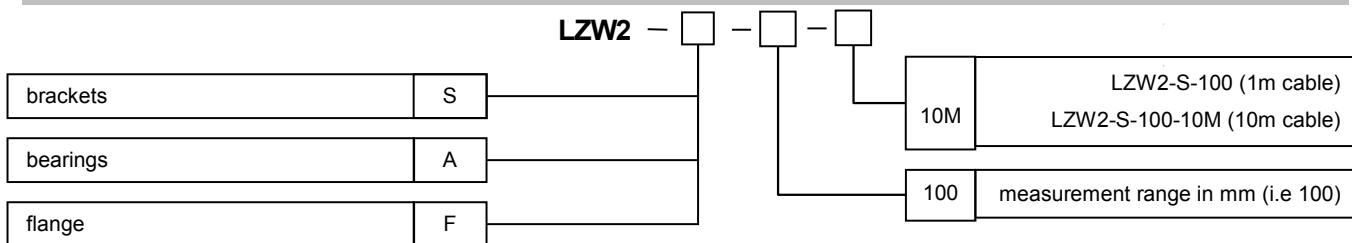
LZW2-A bearings



LZW2-F flange



**Order Code**



**Price List**

**LZW2-S      brackets**

25 mm	LZW2-S-25	102 €
50 mm	LZW2-S-50	105 €
75 mm	LZW2-S-75	108 €
100 mm	LZW2-S-100	110 €
125 mm	LZW2-S-125	112 €
150 mm	LZW2-S-150	115 €
200 mm	LZW2-S-200	124 €
250 mm	LZW2-S-250	126 €

**LZW2-A      Bearings**

25 mm	LZW2-A-25	128 €
50 mm	LZW2-A-50	131 €
75 mm	LZW2-A-75	134 €
100 mm	LZW2-A-100	137 €
125 mm	LZW2-A-125	139 €
150 mm	LZW2-A-150	142 €
200 mm	LZW2-A-200	153 €
250 mm	LZW2-A-250	159 €

**LZW2-F      Flange**

25 mm	LZW2-F-25	102 €
50 mm	LZW2-F-50	105 €
75 mm	LZW2-F-75	108 €
100 mm	LZW2-F-100	110 €
125 mm	LZW2-F-125	112 €
150 mm	LZW2-F-150	115 €
200 mm	LZW2-F-200	124 €
250 mm	LZW2-F-250	126 €

**Options and accessories**

3-wire PVC cable 1m		standard
3-core PVC cable 10 m	order seperately: order code 10M	25,00 €
2 brackets for LZW1-S	STA074	standard

These data can be charged without any advance notice

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