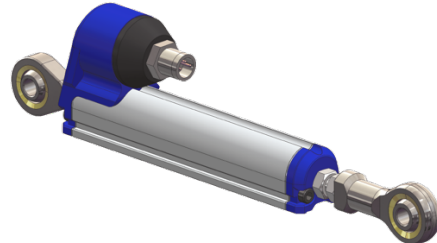


Datasheet

General features

- Measuring range 10 to 400 mm
- Slim design with ball joints
- Excellent repeatability: <0.01 mm
- Infinite resolution
- IP54 protection rating according to EN 60529
- Analog interface
- Voltage / Current



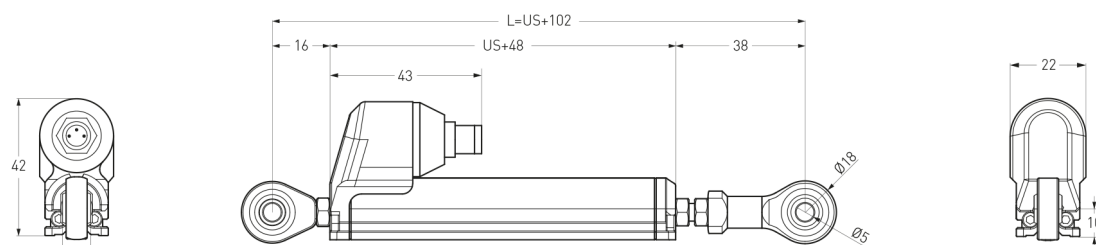
Technical specifications

Measurement stroke	10 to 400 mm
Linearity	A: $\pm 0.5\%$ (<75 mm) B: $\pm 0.2\%$ (100 - 125 mm) C: $\pm 0.1\%$ (130 - 225 mm) D: $\pm 0.05\%$ (≥ 250 mm)
Repeatability	<0.01 mm
Resolution	Infinitely
Permissible applied voltage	28 VDC max.
Electrical connections	M8, 3 pin connector (standard)
Displacement speed	< 5 m/s
Mechanical life	100 million movement
Case dimensions	$\varnothing$ 18 mm
Case material	Anodized aluminium
Rod diameter	$\varnothing$ 5 mm
Rod material	Stainless steel
Caps material	ABS Plastic
Mechanical fixing	Ball joints on the both sides (standard metal)
Protection level	IP54 - EN 60529
Operating temperature	-20 °C ... +80 °C
Storage temperature	-30 °C ... +90 °C
Recommended consumption current	1 μ A
Output	Analog output: 0-5 V, 0-10 V, 0-20 mA, 4-20 mA, 5-0 V, 10-0 V, 20-0 mA, 4-20 mA

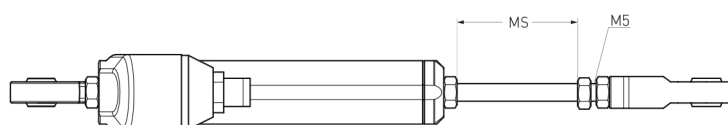
Datasheet

Mechanical specifications

M8, 3 pin connector output (standard)



± 5 mm adjustable length



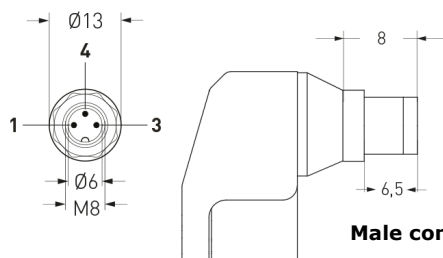
WLP-C-ESRS1 (mm)		10	25	50	75	100	125	150	175	200	250	300	350	400
US = (Usefull stroke)	-0 / +1	10	25	50	75	100	125	150	175	200	250	300	350	400
MS = (Mechanical stroke)	± 1	14	29	54	79	104	129	154	179	204	254	304	354	404
L = (Total length)	± 1	112	127	152	177	202	227	252	277	302	352	402	452	502

Datasheet

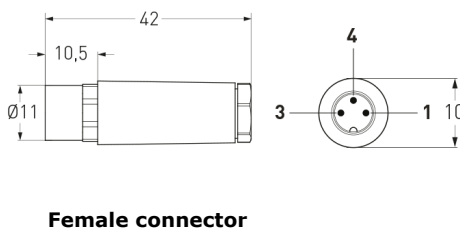
Connector and Ball joint

M8, 3 pin connector output (standard)

Current output



Male connector



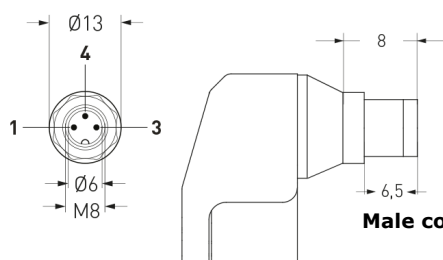
Female connector

Pin configuration

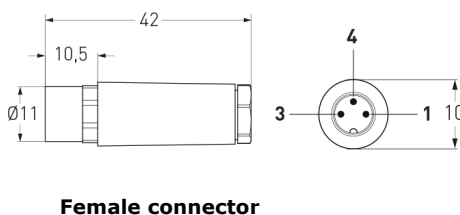
- 1: GND
- 3: Iout
- 4: +Vs

1 = Ground (GND) | 3 = Current output (Iout) | 4 = Supply voltage (+Vs)

Voltage output



Male connector



Female connector

Pin configuration

- 1: GND
- 3: Vout
- 4: +Vs

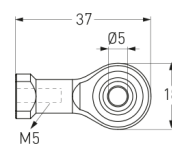
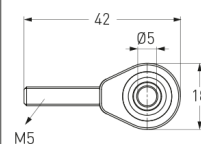
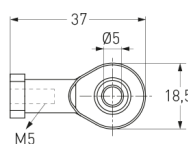
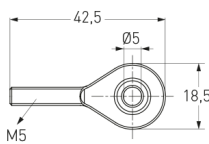
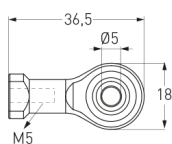
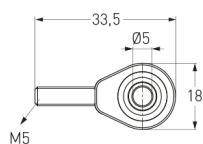
1 = Ground (GND) | 3 = Current output (Iout) | 4 = Supply voltage (+Vs)

Ball joint

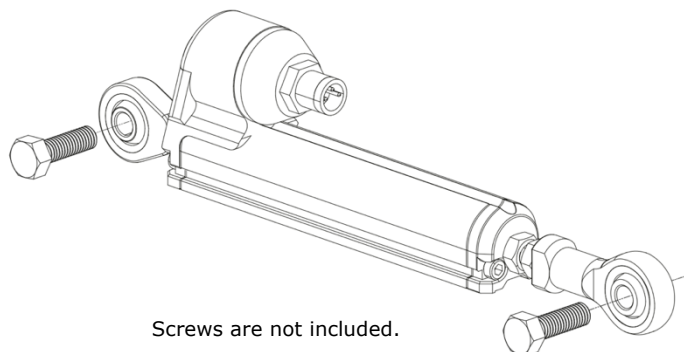
Metal (standard)

Plastic (option)

Stainless steel (option)



Assembly



Screws are not included.

Datasheet

Ordering example

Type	WLP-C	-	ESRS1	-	100	-	B	-	V05	-	C3	-
Category												
E	= electric (V, mA-Version)											
S	= small											
Type of construction												
R	= round											
Location of electrical connection												
S	= side											
Connection type												
1	= connector											
Measurement stroke (mm)												
100	= 10 - 400 mm (see table)											
Linearity (%)												
A	= ±0.5% (≤ 75 mm)											
B	= ±0.2% (100 - 125 mm)											
C	= ±0.1% (130 - 225 mm)											
D	= ±0.05% (≥ 250 mm)											
Output												
V05	= (0 – 5 V)											
V50	= (5 – 0 V)											
V10	= (0 – 10 V)											
V01	= (10 – 0 V)											
I 20	= (0 – 20 mA)											
I 02	= (20 – 0 mA)											
I 40	= (4 – 20 mA)											
I 04	= (20 – 4 mA)											
Electrical connection												
C3	= M8, 3 pin connector (standard)											
Ball joints												
	= Metal (not specified, standard)											
K	= Plastic (option)											
VA	= Stainless steel (option)											

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.