

Features

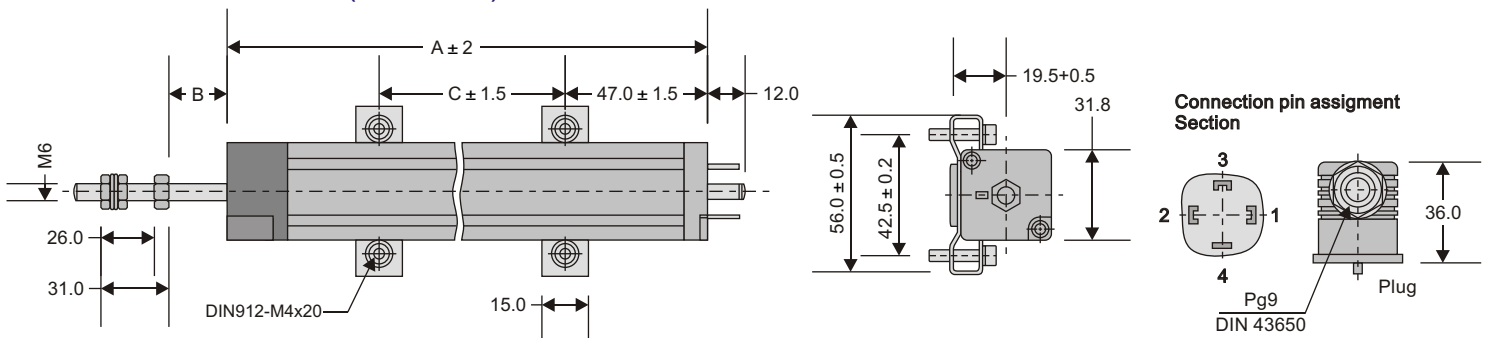
- Very long life > 100 x 10⁶ movements.
- Outstanding linearity.
- High resolution 0.01mm.
- Very high operating speed.
- Connection via plug and socket to DIN 43 650 (hydraulic connector).
- Protection class IP 54.



Specifications

Type designations	RP-LWH 75	RP-LWH 100	RP-LWH 130	RP-LWH 150	RP-LWH 225	RP-LWH 300	RP-LWH 360	RP-LWH 450	RP-LWH 500	RP-LWH 600	RP-LWH 750	RP-LWH 900
Defined electrical range	75mm	100mm	130mm	150mm	225mm	300mm	360mm	450mm	500mm	600mm	750mm	900mm
Electrical stroke	76mm	102mm	132mm	152mm	228mm	304mm	366mm	457mm	508mm	610mm	762mm	914mm
Nominal resistance	3K	3K	3K	5K	5K	5K	5K	5K	5K	5K	10K	10K
Resistance tolerance	± 20%											
Independent linearity	± 0.1%	± 0.1%	± 0.09%	± 0.08%	± 0.07%	± 0.06%	± 0.05%	± 0.05%	± 0.05%	± 0.05%	± 0.04%	± 0.04%
Repeatability	0.01mm											
Recommender operating wiper current	< 1 μA											
Max. wiper current in case of malfunction	10mA											
Max. Permissible applied voltage	42V											
Insulation resistance (500VDC, 1bar, 2s)	10M											
Dielectric strength (50Hz, 2s, 1bar, 500VAC)	100 μA											
Total weight	220g	250g	290g	320g	410g	500g	570g	680g	740g	870g	1050g	1230g
Weight of actuator and wiper	50g	55g	60g	65g	85g	100g	115g	135g	145g	170g	210g	245g
Operating force (horizontal)	1.5N	1.6N	1.6N	1.6N	1.7N	1.8N	1.8N	1.9N	1.9N	2.0N	2.2N	2.3N
Operating force (vertical)	2.0N	2.1N	2.2N	2.3N	2.6N	2.8N	3.0N	3.4N	3.5N	3.9N	4.4N	5.0N
Max. permitted torque for fixing screws (with washers)	240Ncm											
Temperature range	-30 ~ +100											
Vibration	5 ~ 2000Hz / A _{max} = 0.75mm / a _{max} = 20g											
Shock	50g / 11ms											
Life	> 100 x 10 ⁶ operations											
Operating speed	10m/s max.											
Operational acceleration	200 (20g) m / s ² max.											
Protection class	IP 54 (DIN400 50 / IEC 529)											
Housing	Aluminum, anodized											
Fixings	"snap-no" clamps											

Dimensions (Unit:mm)



TYPE	RP-LWH 75	RP-LWH 100	RP-LWH 130	RP-LWH 150	RP-LWH 225	RP-LWH 300	RP-LWH 360	RP-LWH 450	RP-LWH 500	RP-LWH 600	RP-LWH 750	RP-LWH 900
A	148	173	203	223	300	375	438	528	579	680	833	985
B	83	109	139	160	236	312	373	465	515	617	769	922
C	52.5	77.5	108.5	128.5	204.5	280.5	343.5	433.5	484.5	585.5	738.5	890.5

