

Linear Scale AT103

Standard type



Specifications

Effective range (L0)	100 - 3000 mm
Accuracy at 20°C	(5+5L/1000) μm L = Effective range (mm)
Output waveform	Two 90° phase-shifted sinusoidal signals
Max. drive speed	120 m/min.
Signal period	20 μm
Scale reference points	every 50 mm
Operating temperature	0°C to 45°C
Dust/Water protection level	IP53 (with normal installation)

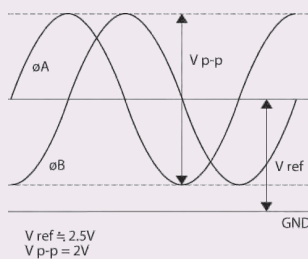
Optional accessories

No.	Description
09AAA033A	Extension cable (2 m)
09AAA033B	Extension cable (5 m)
09AAA033C	Extension cable (7 m)
174-173D	KA-Counter 2 Axis
174-173E	KA-Counter 2 axis UK only
174-175D	KA-Counter 3 axes
174-175E	KA-Counter 3 axes UK only
174-147D	KLD200 Counter 4-step limit signal output
174-147E	KLD200 Counter KLD200 Counter 4-step limit signal output UK only



Extension cable

Legend
L0 Effective range
L1 Travel range
L2 Bore centre distance
L3 Total length
L4-L6 Support bracket position



Output waveform



Please refer to the DRO leaflet for more details.

Series 539 - Range 100-3000mm

- Enhanced vibration resistance and durability.
- The innovative rubber lips keep out contaminants when used in a machine shop.
- An armoured signal cable is used to connect the scale unit to the DRO counter for safe operation in harsh environments.
- The signal cable outlet can be positioned on either side of the slider so the signal cable can be connected from either direction.



539-133

No.	Effective range	L ¹ mm	L ² mm	L ³ mm	L ⁴ mm	L ⁵ mm	L ⁶ mm	Cable length	Mass kg
539-111-30*	100 mm/4"	120	248	268				3 m	1.5
539-112-30*	150 mm/6"	170	298	318				3 m	1.6
539-113-30*	200 mm/8"	220	348	368				3 m	1.7
539-114-30	250 mm/10"	270	398	418				3 m	1.8
539-115-30*	300 mm/12"	330	458	478				3 m	1.9
539-116-30*	350 mm/14"	380	508	528				3 m	2
539-117-30*	400 mm/16"	430	558	578				3 m	2.1
539-118-30*	450 mm/18"	480	608	628				3 m	2.2
539-119-30*	500 mm/20"	540	668	688				3 m	2.3
539-121-30*	600 mm/24"	650	778	798				3 m	2.6
539-123-30*	700 mm/28"	760	888	908				3 m	2.8
539-124-30*	750 mm/30"	810	938	958				3 m	2.9
539-125-30*	800 mm/32"	860	988	1008				3 m	3
539-126-30*	900 mm/36"	960	1088	1108				3 m	3.3
539-127-30	1000 mm/40"	1060	1188	1208	594			5 m	3.7
539-128-30*	1100 mm/44"	1160	1288	1308	644			5 m	4
539-129-30*	1200 mm/48"	1260	1388	1408	694			5 m	4.2
539-130-30*	1300 mm/52"	1360	1488	1508	744			5 m	4.4
539-131-30*	1400 mm/56"	1460	1588	1608	794			5 m	4.6
539-132-30*	1500 mm/60"	1560	1688	1708	844			5 m	4.8
539-133-30*	1600 mm/64"	1690	1818	1838		610		5 m	5.1
539-134-30	1700 mm/68"	1790	1918	1938		650		5 m	5.3
539-135-30	1800 mm/72"	1890	2018	2038		670		5 m	5.5
539-136-30	2000 mm/80"	2100	2228	2248		740		5 m	6
539-137-30	2200 mm/88"	2300	2428	2448		800		5 m	6.4
539-138-30	2400 mm/96"	2500	2628	2648	1314	1300	650	7 m	7.1
539-139-30	2500 mm/100"	2600	2728	2748	1364	1340	670	7 m	7.3
539-140-30	2600 mm/104"	2700	2828	2848	1414	1400	700	7 m	7.5
539-141-30	2800 mm/112"	2900	3028	3048	1514	1500	750	7 m	7.9
539-142-30	3000 mm/120"	3100	3228	3248	1614	1600	800	7 m	8.3

