

Linear Scale AT103

High accuracy type

Series 539 - Range 100-2000mm



FEATURES

- 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.

Specifications

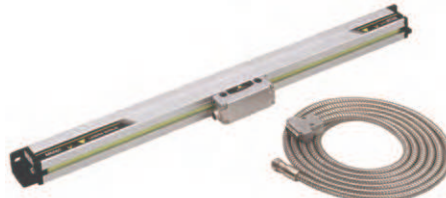
Effective range (L0)	100 - 2000 mm
Accuracy at 20°C	(3+3L/1000) µm L = Effective range (mm)
Output waveform	Two 90° phase-shifted sinusoidal signals
Max. drive speed	120 m/min.
Signal period	20 µm
Scale reference points	every 50 mm
Operating temperature	0°C to 45°C
Dust/Water protection level	IP53 (with 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



539-133

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

Legend
 L0 Effective range
 L1 Travel range
 L2-L3 Mount interval
 L4 Overall length
 L5-L6 Support bracket position



Refer to the DRO System leaflet for more details.

