

Linear Scales ABS AT715

SERIES 539 — Slim Spar Type



SPECIFICATIONS

Model	ABS AT715	
Detection method	Electromagnetic induction	
Resolution	.000020" - .001" (0.0005mm to 0.01mm) (on the KA/KLD200 counter)	
Effective range	100 to 3000mm	
Accuracy (20°C)	±5μm (Lo: 100 to 500mm), ±7μm (Lo: 600 to 1800mm), ±10μm (Lo: 2000 to 3000mm) Lo: Effective range (mm)	
Maximum response speed	50m/min	
Protection level	IP67	
Sliding force	5N or less	
Signal cable	Standard accessory Refer to the dimension table shown below for the length.	
Extension cable (optional)	Length	Order No.
	2m	09AAB674A
	5m	09AAB674B
	7m	09AAB674C
Connectable counter	KA Counter/ KLD200 Counter	

AT715		Effective range Lo inch/mm	Signal cable length (m)
Order No.	Model		
539-801	ABS AT715-100	4" /100mm	3.5
539-802	ABS AT715-150	6" /150mm	
539-803	ABS AT715-200	8" /200mm	
539-804	ABS AT715-250	10" /250mm	
539-805	ABS AT715-300	12" /300mm	
539-806	ABS AT715-350	14" /350mm	
539-807	ABS AT715-400	16" /400mm	
539-808	ABS AT715-450	18" /450mm	
539-809	ABS AT715-500	20" /500mm	
539-811	ABS AT715-600	24" /600mm	
539-813	ABS AT715-700	28" /700mm	5
539-814	ABS AT715-750	30" /750mm	
539-815	ABS AT715-800	32" /800mm	
539-816	ABS AT715-900	36" /900mm	
539-817	ABS AT715-1000	40" /1000mm	
539-818	ABS AT715-1100	44" /1100mm	
539-819	ABS AT715-1200	48" /1200mm	
539-820	ABS AT715-1300	52" /1300mm	
539-821	ABS AT715-1400	56" /1400mm	
539-822	ABS AT715-1500	60" /1500mm	7*1
539-823	ABS AT715-1600	64" /1600mm	
539-824	ABS AT715-1700	68" /1700mm	
539-825	ABS AT715-1800	72" /1800mm	
539-860	ABS AT715-2000	80" /2000mm	
539-861	ABS AT715-2200	88" /2200mm	
539-862	ABS AT715-2400	96" /2400mm	
539-863	ABS AT715-2500	100" /2500mm	
539-864	ABS AT715-2600	104" /2600mm	
539-865	ABS AT715-2800	112" /2800mm	
539-866	ABS AT715-3000	120" /3000mm	

*1: Combination of a 5m signal cable and a 2m extension cable

ABSOLUTE™



- Electromagnetic induction principle means scales are unaffected by contamination.
- Absolute scales have eliminated the need for origin restoration and drastically reduced power consumption.
- Suitable for milling machines, XY tables, jigs, etc.

Optional Accessories

09AAB674A Extension cable 2m

09AAB674B Extension cable 5m

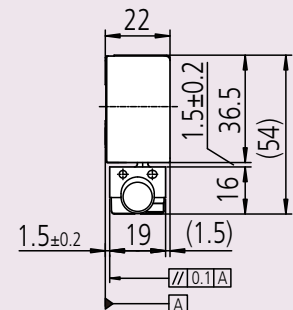
09AAB674C Extension cable 7m

174-183A 2-Axis KA Counter

174-185A 3-Axis KA Counter



174-183A



Linear Scales AT116

SERIES 539 — Economy and Slim Spar Type

FEATURES

- Suitable for milling machines, XY tables, jigs, etc.
- Dimensionally compatible with **AT113** linear scale units.
- Connectable to the **KA** counter, **KLD** counter or **PSU-200**.



SPECIFICATIONS

Model	AT116
Effective range	4" to 60" / 100 to 1500mm (20 models)
Resolution	0.01 to 0.0001mm (.001" to .000005")
Accuracy (20°C)	(5+5L/1000)μm
Output signal	Two 90° phase-shifted sinusoidal signals
Maximum response speed	50m/min
Signal output pitch	20μm
Scale reference point	Output in 50mm pitch
Protection level	IP53
Operating temperature	0 to 45°C

AT116		Effective range L ₀ inch / mm	Signal cable length (m)
Order No.	Model		
539-271-30	AT116-100	4" /100mm	3.5
539-272-30	AT116-150	6" /150mm	
539-273-30	AT116-200	8" /200mm	
539-274-30	AT116-250	10" /250mm	
539-275-30	AT116-300	12" /300mm	
539-276-30	AT116-350	14" /350mm	
539-277-30	AT116-400	16" /400mm	
539-278-30	AT116-450	18" /450mm	
539-279-30	AT116-500	20" /500mm	
539-281-30	AT116-600	24" /600mm	
539-283-30	AT116-700	28" /700mm	
539-284-30	AT116-750	30" /750mm	
539-285-30	AT116-800	32" /800mm	
539-286-30	AT116-900	36" /900mm	
539-287-30	AT116-1000	40" /1000mm	5
539-288-30	AT116-1100	44" /1100mm	
539-289-30	AT116-1200	48" /1200mm	
539-290-30	AT116-1300	52" /1300mm	
539-291-30	AT116-1400	56" /1400mm	
539-292-30	AT116-1500	60" /1500mm	



Optional Accessories

- 09AAB674A:** Extension cable (2m / 80")
09AAB674B: Extension cable (5m / 200")
09AAB674C: Extension cable (7m / 280")



- 174-183A** 2-Axis KA Counter
174-185A 3-Axis KA Counter



174-183A

Unit: mm (inch)

