



- Outputs 2-phase sinusoidal wave signals at 4 μm pitch.
- The maximum effective measuring length is 3000 mm when the resolution is 0.01/0.02/0.05/0.1 μm (2-phase square-wave is output).
- Compact detector head enables space saving design.
- Along with the output specifications of 2-phase sinusoidal wave and 2-phase square-wave, the output specification of 1 Vp-p wave is also available.
- Equipped with the function to display signal errors on the LED.

Linear Scales ST36 SERIES 579 — High Accuracy Type

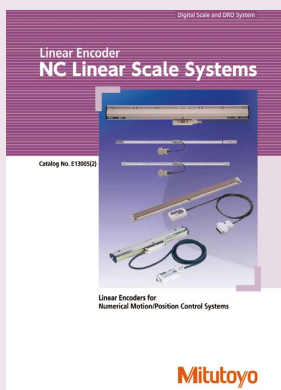


SPECIFICATIONS

Model	ST36
Detection method	Optical
Output signal	ST36A: 2 Vp-p sinusoidal signals ST36B: 2-phase square-wave signals (RS-422A compatible), Alarm reset input ST36C: 2-phase square-wave signals (RS-422A compatible), 2-phase sinusoidal signals ST36D: 1 Vp-p differential sinusoidal signals
Main scale grating pitch	8 μm
Signal output pitch	4 μm
Effective range	10 to 3000 mm
Accuracy (20 °C)*1	$\pm 0.5 \mu\text{m}$, $\pm 1 \mu\text{m}$, $\pm 2 \mu\text{m/m}$
Maximum response speed*2	1200 mm/s
Scale reference point	10 to 80 mm: 1 center point; 100 to 300 mm: 50 mm pitch
Power supply voltage	5 VDC $\pm 5\%$
Operating temperature (humidity) range	0 to 40 °C (20 to 80% RH, non-condensing)
Storage temperature (humidity) range	-20 to 60 °C (20 to 80% RH, non-condensing)
Head cable length	1 m (high-flex connecting cable)

*1	Effective range	Accuracy
	300 mm or less	$\pm 0.5 \mu\text{m}$
	500 mm or less	$\pm 1 \mu\text{m}$
	1000 mm or less	$\pm 2 \mu\text{m}$
	3000 mm or less	$\pm 2 \mu\text{m/m}$

*2 Maximum response speed when sinusoidal signals are output



Refer to the NC Linear Scale Systems Brochure (E13005) for more details.