

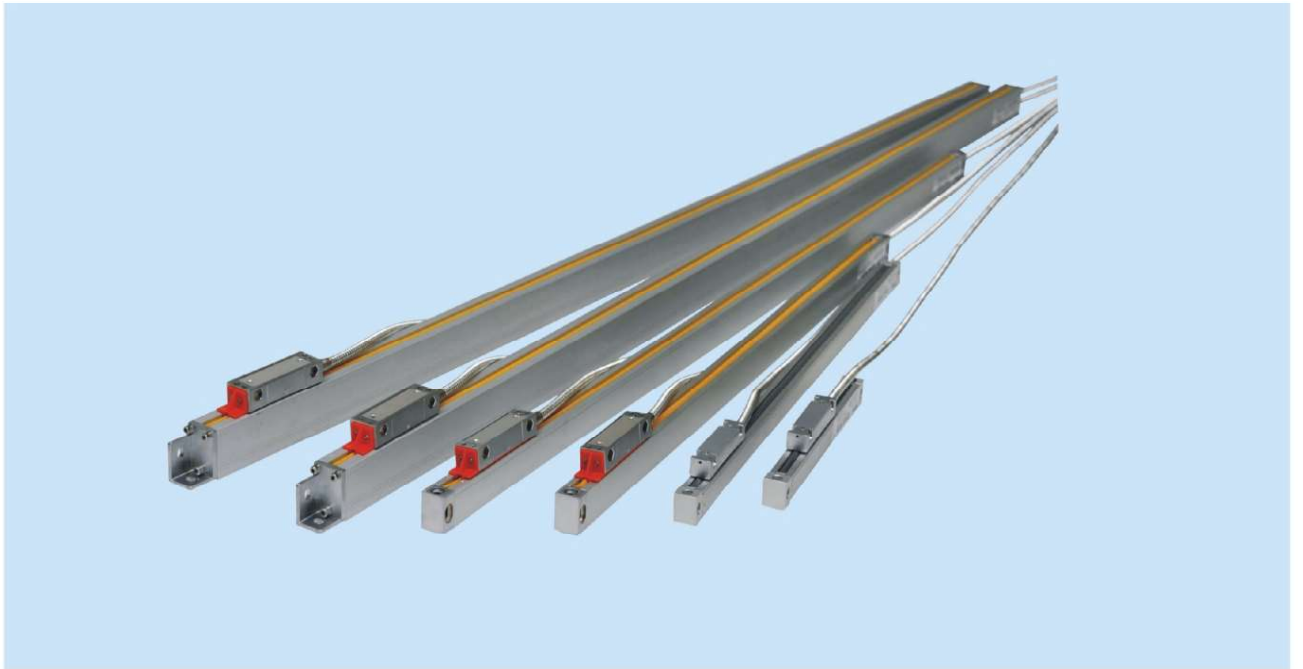
LINEAR SCALE

Key Features

- Resolution: 0.1/0.5/1/5/10µm
- Accuracy: $\pm 3/\pm 5/\pm 10 \mu\text{m}$ (20° C/68° F)
- The grating period: 20µm optical linear scale.
- Grating system: The transmissive and infrared optical measuring system, the infrared wave length is 880nm.
- Reading head sliding system: vertical or 45° five precision bearing system

DC Series Linear Scale Parameter Sheet

Type	DC10F	DC10	DC20	DC30
Measure Length(mm)	50-600	50-1100	50-3000	50-1200
Cross section(mm)	18x23	20.5x31	27x44	24x35
Reference Point	50mm or 100mm /piece			
Accuracy (µ m)	$\pm 3/\pm 5/\pm 10/1000\text{mm}$ (20°C, 68°F)			
Max. Moving Speed	60M/Min			
Sealing Protection	IP55			
Output signal	TTL/RS-422	TTL/RS-422/1VPP	TTL/RS-422/1VPP	TTL/RS-422/1VPP
Resolution(µ m)	0.5/1/5	0.1/0.5/1/5/10	0.1/0.5/1/5	0.1/0.5/1/5
Voltage	5V	5V/12V/24V	5V/12V/24V	5V/12V/24V



LINEAR SCALE SIGNAL WIRING DIAGRAM

Linear Scale: Nine-pin TTL Signal Output Diagram

Pin	1	2	3	4	5	6	7	8	9
Signal	Empty	0V	Empty	Shield	empty	A	+5V	B	R
Color		Black		Shielding		Yellow	Red	Green	Brown

Linear Scale: Nine-pin RS-422 Signal Output Diagram

Pin	1	2	3	4	5	6	7	8	9
Signal	A-	0V	B-	Shield	R-	A	+5V	B	R
Color	Orange	Black	Blue	Shielding	White	Yellow	Red	Green	Brown

Linear Scale: Seven-pin TTL Signal Output Diagram

Pin	1	2	3	4	5	6	7
Signal	0V	Empty	A	B	+5V	R	Shield
Color	Black		Yellow	Green	Red	Brown	Shielding

