

- Optical Measuring
- Linear/Glass scale
- 5 ball bearing system
- Single or double gasket protection
- High resolution up to 0.5 μm
- 5 VDC TTL Quadrature or 1 Vpp Sinusoidal
- Easy mounting
- Measuring lengths 50 mm – 1000 mm
- 60 m/min movement speed

WTT Linear/Glass Scales Systems are protected from dust, chips and splash fluids and are ideal for operation on machine tools.

WTT Series linear/glass scales can measure between 50 and 1000 mm.

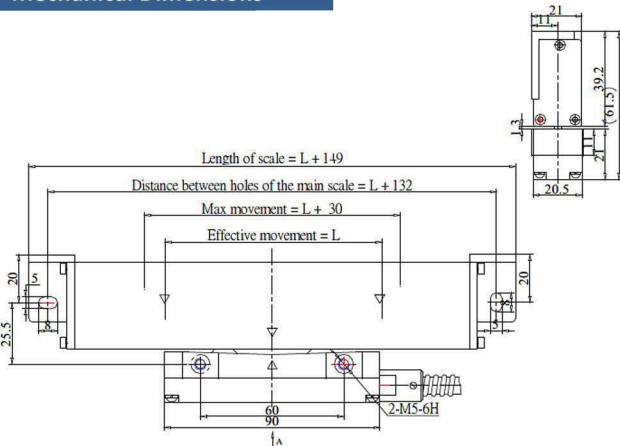
Technical Specifications

Resolution	1μm, 5μm or 1Vpp Sinusoidal
Output	5VDC TTL Quadrature or 1Vpp Sinusoidal
Output Signals	TTL: A, /A, B, /B, Z, /Z
Grating pitch / Signal Period	20 μm
Supply Voltage	5 VDC
Accuracy	± 10 μm
Movement Speed	60 m/min
Repeatability	± 1 Pulse
Body Material	Aluminum
Reference Mark	1 Reference Mark Every 50 mm
Storage Temperature	-40 to +55°C
Operating Temperature	0 to +50°C
Protection Class	IP54
Cable Length	3.5 meters

Connection

	PIN	SIGNAL	Color of signal line	Attribute	Current
9PD - TTL socket(standard)	1	+5V	Red	Input	35mA
	2	0V	Black	Input	35mA
	3	A	Brown	Output	4mA
	4	B	Yellow	Output	4mA
	5	RI	Orange	Output	4mA
	9	FG	Weaving net		
15PD-TTL socket(opt)	1	+5V	Red	Input	35mA
	2	0V	Black	Input	35mA
	3	A	Brown	Output	4mA
	4	B	Yellow	Output	4mA
	5	RI	Orange	Output	4mA
	9	FG	Weaving net		
6-wire TTL socket(opt)	1	0V	Black	Input	35mA
	2	A	Brown	Output	4mA
	3	B	Yellow	Output	4mA
	4	RI	Orange	Output	4mA
	5	+5V	Red	Input	35mA
	6	FG	Weaving net		
7-wire TTL socket(opt)	1	0V	Black	Input	35mA
	2	NC			
	3	A	Brown	Output	4mA
	4	B	Yellow	Output	4mA
	5	+5V	Red	Input	35mA
	6	RI	Orange	Output	4mA
	7	FG	Weaving net		

Mechanical Dimensions



Order Code

Model

WTT	X	-	X	X	X	X
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Measuring Stroke

- 50 : 50 mm
- 200 : 200 mm
- 500 : 500 mm
- 1000 : 1000 mm

Resolution

- 01 : 1μm
- 05 : 5μm

Signal Output Type

6 : A, /A, B, /B, Z, /Z

Standard, 1 Z signal per 50 mm
 Optional one Z reference signal