



- 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 – 3000 mm
- 60 m/min movement speed

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

WTD Series linear/glass scales can measure between 50 and 3000 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
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		

9PD - TTL socket(standard)

PIN	SIGNAL	Color of signal line	Attribute	Current
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)

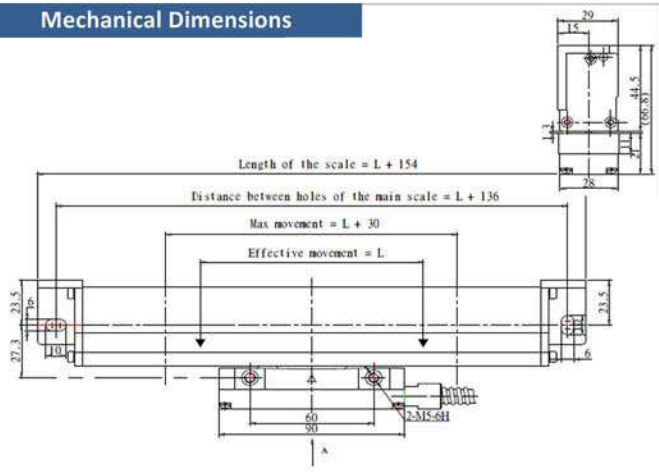
PIN	SIGNAL	Color of signal line	Attribute	Current
1	0V	Black	Input	35mA
2	A	Brown	Output	4mA
3	B	Yellow	Output	4mA
4	RI	Orange	Output	4mA
5	+5V	Red	Input	35mA
6	FG	Weaving net		

6-wire TTL socket(opt)

PIN	SIGNAL	Color of signal line	Attribute	Current
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		

7-wire TTL socket(opt)

### Mechanical Dimensions



### Order Code

#### Model

#### Measuring Stroke

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

WTD X - X X X X

#### 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