

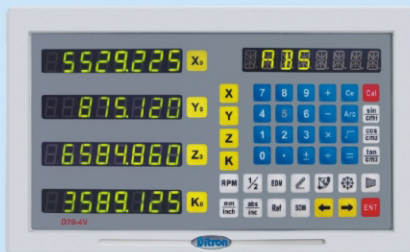
PRODUCT DISPLAY



D80

THE TECHNICAL PARAMETER OF DRO-DC50&D60&D70&D80

- **Voltage range:** AC 80V–260V/50HZ–60HZ
- **Power dissipation:** 15W
- **Working temperature:** –10°C–60°C
- **Coordinate display:** 1 axi,2 axis, 3 axis, 4 axis (D70 series)
1 axi,2 axis, 3 axis (D60/DC50 series)
1 axi,2 axis, 3axis,4 axis,5axis(D80 series)
- **Display:** 8 bit
- **Times frequency:** 4X
- **Readout box input signal:** TTL,ELA–422–A
- **Input frequency:** < 5MHZ
- **Resolution:** 0.1 μm, 0.2 μm, 0.5 μm,
1 μm, 2 μm, 2.5 μm, 5 μm, 10 μm
- **Operating keyboard:** light touch buttons
Connected Linear scale's Grating space should be 0.04mm, 0.02mm, 0.01mm, and its power supply: +5V.



D70-4V



D60-3V



DC503

Digital Readout Function List

Digital Readout Series	DC50	D60						D70	D80
DRO Type Function	DC501	D60-2V			D60-3V			D70-4V	D80
	DC502								
	DC503	D60-2M	D60-2L	D60-2G	D60-3M	D60-3L	D60-3E		
—Zeroing, Data Recovery									
—Input Coordinate									
—Display in Metric British Units									
—Power Off Memory Function	●	●	●	●	●	●	●	●	●
—Encoder Selection									
—Resolution Setting									
—Linear Compensation									
—Counting Direction Selection									
—ABS/INC Coordinate									
—200 sets SDM Coordinate									
—Ref Ruler Storage Function									
—Calculator		●	●	●	●	●	●	●	●
—Non-linear Compensation									
—1/2 Function									
—Sleeping Function									
PLD Function		●			●		●	●	●
PCD Function		●			●		●	●	●
Simple R Function		●			●		●	●	●
Smooth R Function		●			●		●	●	●
Bevel Machining Function		●			●		●	●	●
Rectangle Chambering Function		●			●		●	●	●
Taper Measuring Function			●			●			●
200 sets of Tools			●			●			●
Radius/Diameter Conversion			●			●			●
Y+Z Function (special for 3axis lathes)						●			●
Digital Filtering Function				●					●
Value Combination of 2 axis in the same direction								●	●
Picture Demonstration									●
EDM Function							●	●	●
Rotational Speed Measurement								○	○
RS232		○	○	○	○	○	○		○

Remarks: ● Standard Function ○ Optional Function

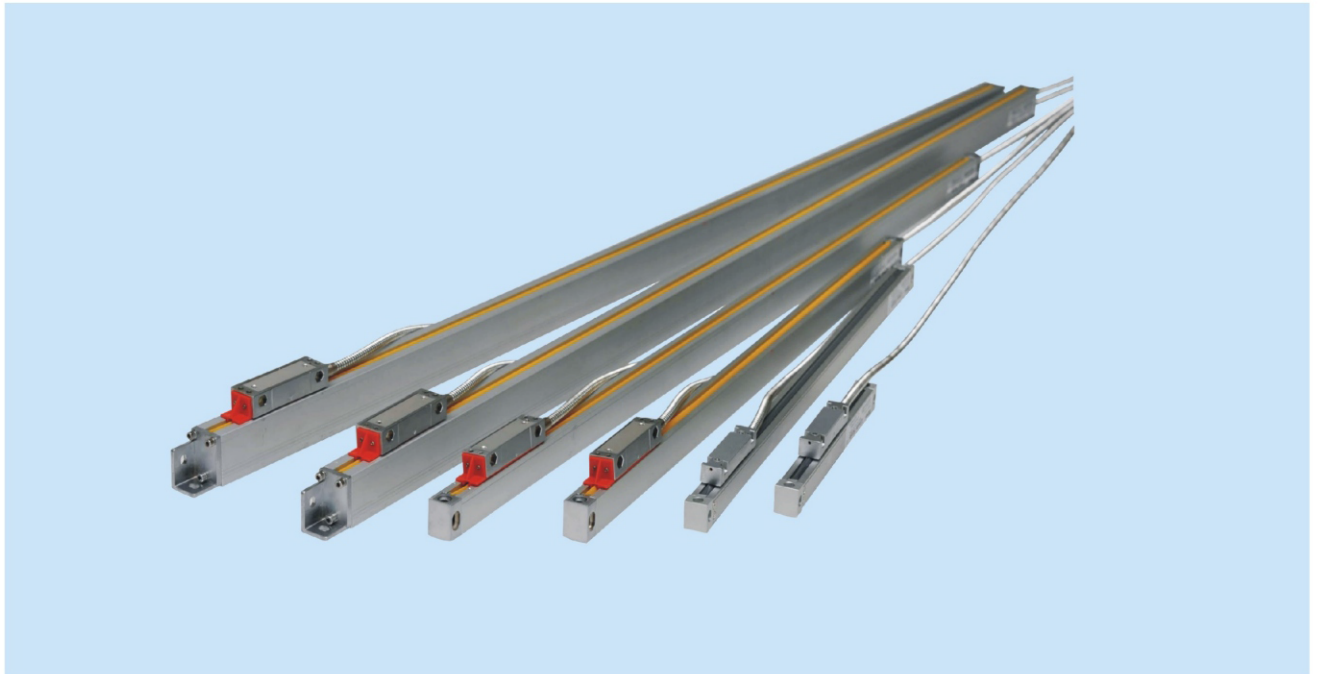
LINEAR SCALE

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

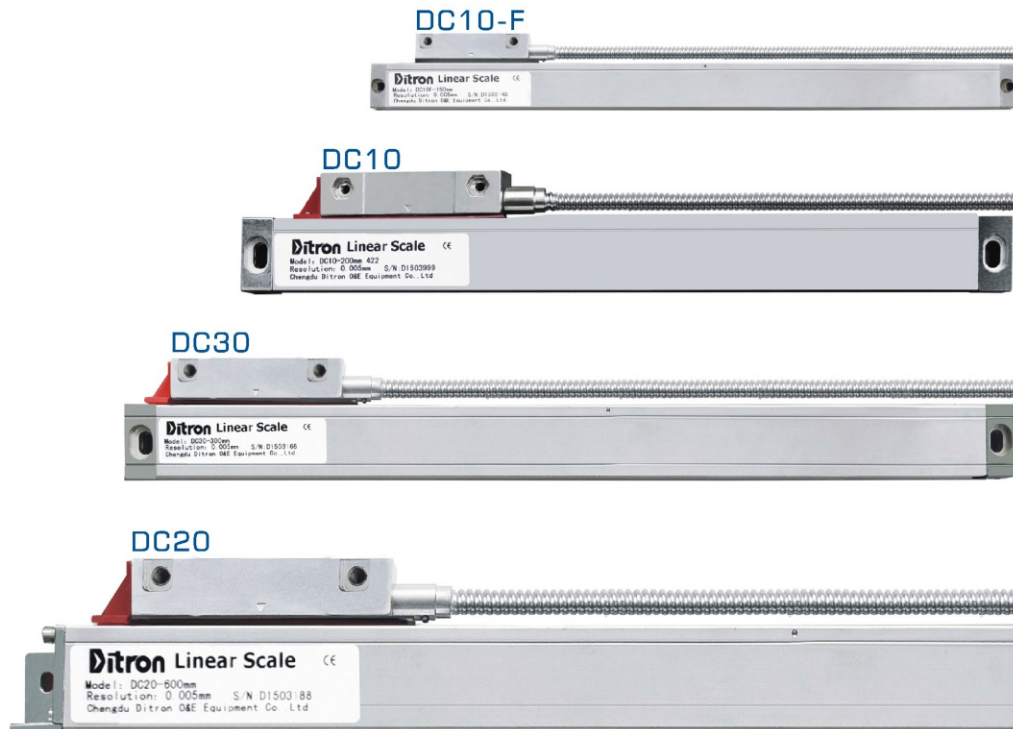
Pin	1	2	3	4	5	6	7	8	9
Signal	Empty	0V	Empty	Shield	empty	A	+5V	B	R
Color		Black		Shielding		Yellow	Red	Green	Brown

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

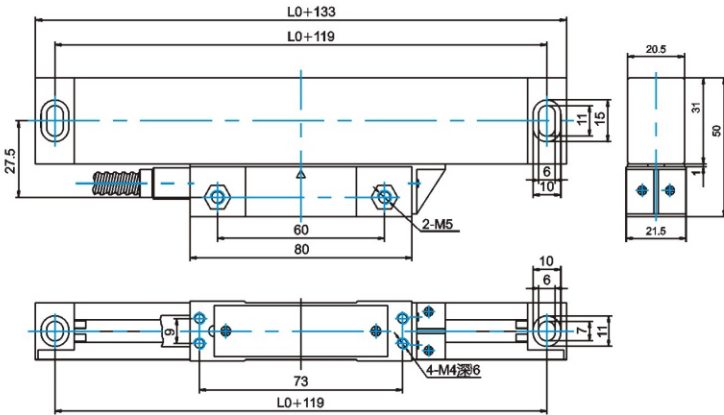
Pin	1	2	3	4	5	6	7	8	9
Signal	A-	0V	B-	Shield	R-	A	+5V	B	R
Color	Orange	Black	Blue	Shielding	White	Yellow	Red	Green	Brown

Linear Scale: Seven-pin TTL Signal Output Diagram

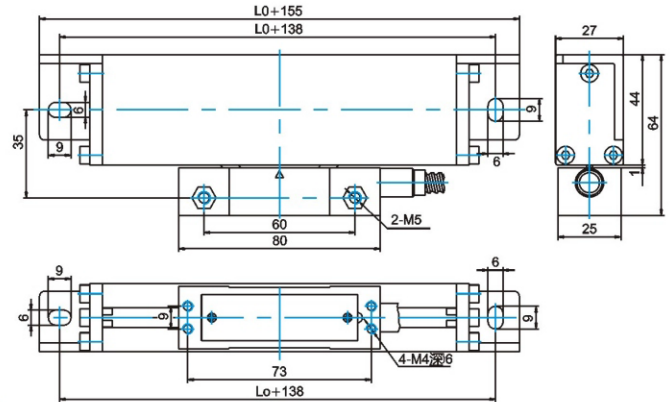
Pin	1	2	3	4	5	6	7
Signal	0V	Empty	A	B	+5V	R	Shield
Color	Black		Yellow	Green	Red	Brown	Shielding



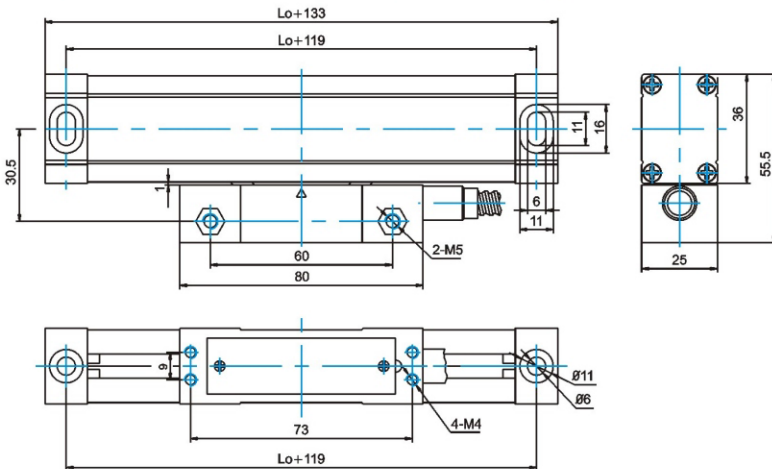
DC 10 Series Dimension Drawing



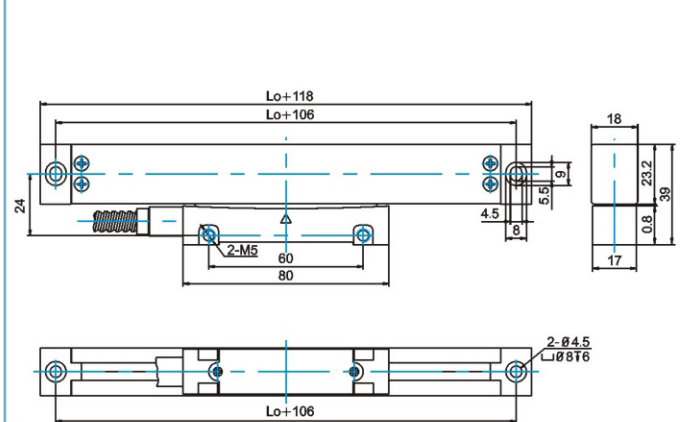
DC 20 Series Dimension Drawing



DC 30 Series Dimension Drawing



DC 10F Series Dimension Drawing



D30 SERIES OF MICRO-DISPLACEMENT SENSOR

Specifications:

- Measure range: 0–15mm, 0–30mm
- Maximum speed: 300mm / S
- Measuring force: < 2.5N
- Operating Temperature: 10°C–40°C
- Storage Temperature: 0°C–55°C
- Standard cable length: 2m
- Output signal: TTL
- Voltage: +5V/+12V/+24V



2D VIDEO MEASURING MACHINE

VM series 2D video measuring machine which with high resolution CCD imaging system, precision worktable and 0.0005mm resolution linear scales as measurement standard , therefore the workpiece can be magnified 20~180 times for precision measurement . It particularly suites to measure regular curves and ultra precision parts.

The z-axis column and the base of VM series are made by high precision granite, that ensure the instrument's dynamic balance, accuracy and stability.

FEATURES:

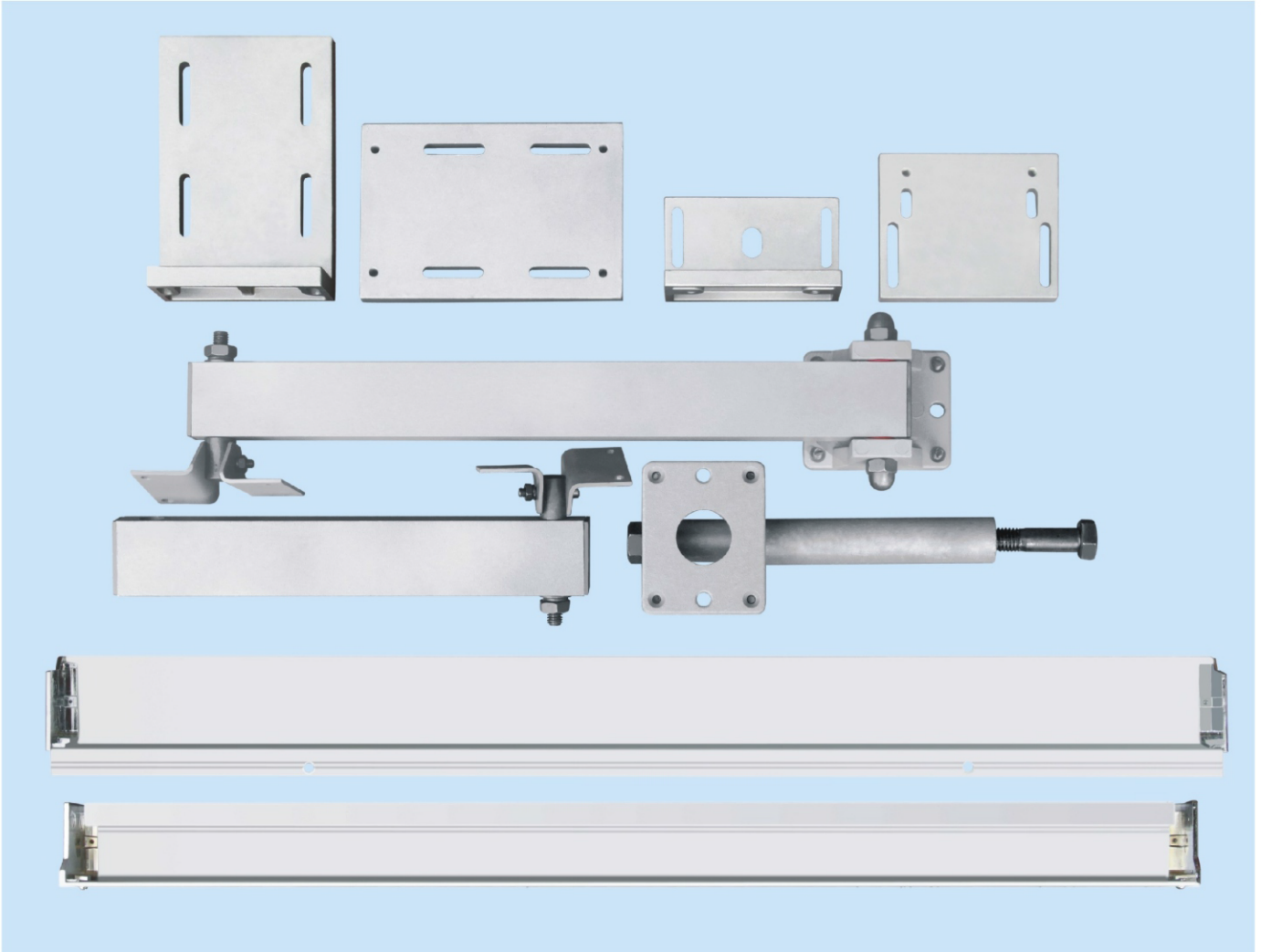
- The Z axis of VM series has double linear guide rail structure.
- VM series has loaded full functions geometric measurement software, so VM can take all the complex accurate geometric measurements.
- To save data, and make further analysis and processing, VM series can output in DXF ,WORD and EXCEL mode ,it can be edited by CAD software as well. That makes work such as SP/QC/QA easier and more efficient.

Technical Parameter:

- **Measuring Range:**150mm × 100mm × 150mm(VM-1510)
200mm × 100mm × 150mm(VM-2010)
250mm × 150mm × 150mm(VM-2515)
300mm × 200mm × 150mm(VM-3020)
400mm × 300mm × 200mm(VM-4030)
- **Worktable Max. Bearing Weight:**25KGS
- **Indication Error of X&Y axis:**(3+L/100)um, L is the measuring length.
- **Magnification:** 30X~180X
- **Signal collection box:** USB-301, RS232
- **Soft:**2D measuring software and video card.
- **Power:**AC220V, 50HZ



— INSTALLATION ACCESSORY





SANTA ROSA # 1581 SANTIAGO- CHILE
FONO: 2 2554 5716

MIGUEL DE ATERO # 2742 QUINTA NORMAL – SANTIAGO – CHILE
FONO: 22 554 5845