

Magnetic Displacement

MR-D Series



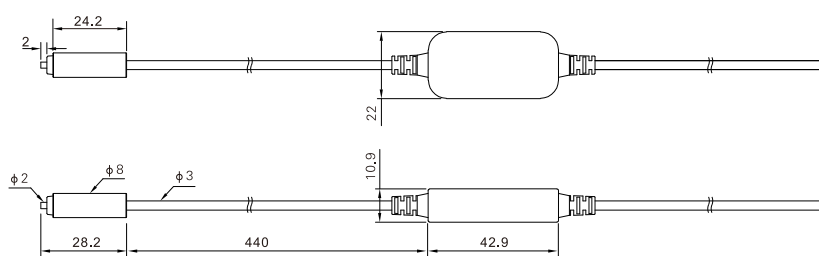
Appearance		
Detection principle	Differential transformer	
Measuring range	1mm	
Resolution	0.2 μ m	
Repeat accuracy	5 μ m	
Measuring force	Downward mounting	1.0N
	Horizontal mounting	0.9N
	Upward mounting	0.8N
Sampling period	100ms	
Mechanical response	40Hz	
Operating voltage	12~24V	
Indicator light	Monochrome LED	
Degree of protection	IP67	
Ambient temperature	(−10℃~+55℃)	
Ambient humidity	10~85% RH, No freezing	
Vibration resistance	10~55HZ Double amplitude 1.5mm,XYZ three directions,2 hour each	
Shock resistance	1000m/s ²	
Material	SUS304.Cable between sensor and repeater:PVC,Relay amplifier:PPSU	
Communication protocol	Modbus RTU	
Weight	≈30g	
Model No.	MR-D28-485	

※ Values display when ambient temperature is 20℃

※ Customization is available at customer's requests

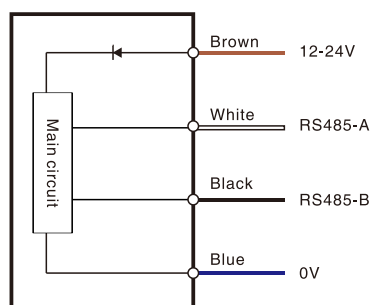
Dimensions

Unit: mm



Circuit diagram

■ 485



Appearance

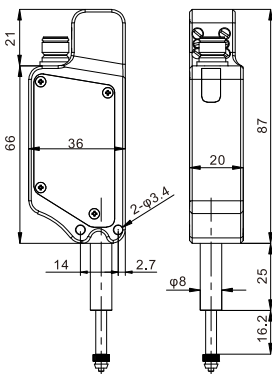


Detection principle	Scale pulse system (absolute value type)			
Measuring range	15mm	35mm	55mm	
Resolution	0.1 μ m	0.5 μ m	1.0 μ m	
Repeat accuracy	± 2 μ m	± 2 μ m	± 3 μ m	
Operating Voltage	12V (No analog output) 15V (Analog output)			
Indicator light	2–color LED (red, green)			
Degree of protection	IP50			
Ambient humidity	(–10℃~+50℃)			
Power consumption	0.75W			
Logic output	NPN 100mA Max; 40V Max			
Analog output	4–20mA(Loaded by 50 Ω)/0–10V			
Material	Aluminum			
Communication Interface	Rs485 and SSI or RS232			
Weight	≈ 110g	≈ 150g	≈ 180g	
Model No.	12V Voltage Type	MR-DT-L15- 485: RS485&SSI Output 232: RS232 Output	MR-DT-L35- 485: RS485&SSI Output 232: RS232 Output	MR-DT-L55- 485: RS485&SSI Output 232: RS232 Output
	15V Voltage Type	MR-DT-H15- A: Current output V: Voltage output 485: RS485&SSI Output 232: RS232 Output	MR-DT-H35- A: Current output V: Voltage output 485: RS485&SSI Output 232: RS232 Output	MR-DT-H55- A: Current output V: Voltage output 485: RS485&SSI Output 232: RS232 Output

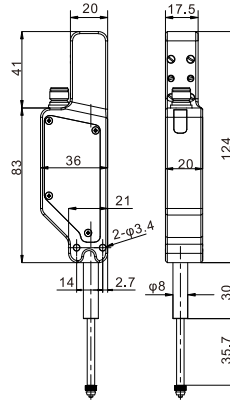
Dimensions

Unit: mm

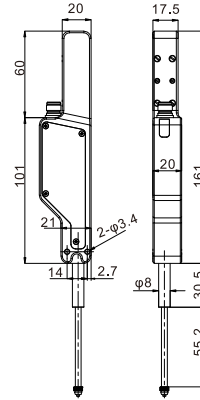
MR-DT-L/H15



MR-DT-L/H35

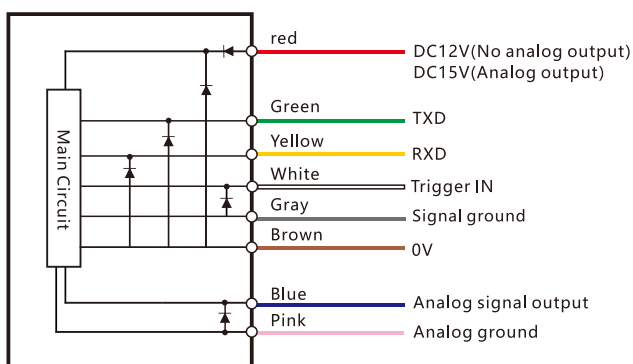


MR-DT-L/H55

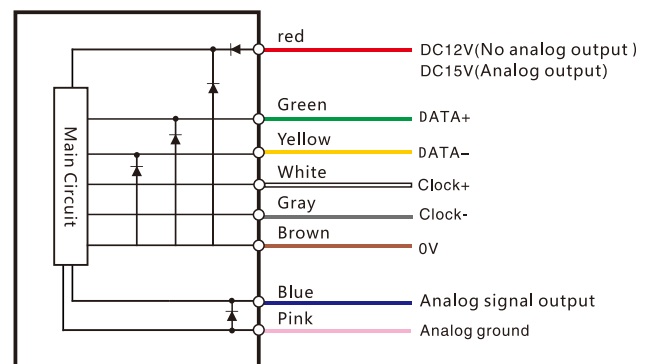


Circuit diagram

RS232



RS485-SSI



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vibration

Temperature

Cables

Tester

Guidance

Displacement

TOF measurement

Mini digital display

Built-in controller

Linear measurement

Magnetic displacement

LIDAR Scanner

Color confocal