MLD27 Series

Appearance							
Sensing type		Diffuse reflection					
Sensing distance		15~20mm	30~45mm	55~85mm	90~190mm	125~625mm	245~1245mm
F.S		5mm	15mm	30mm	100mm	500mm	1000mm
Light source	Medium. Wave length	Red semiconductor laser wavelength: 660nm, blue semiconductor laser wavelength: 405nm					
	Max. output power	≤0.95mw（Low power），≤5mw，≤20mw（High power）					
IEC/JIS		class2（Low power），class3R，class3B（High power）					
Linearity		±0.05%					±0.1%
Repeat accuracy		0.01%					0.02%
Sampling period		9400Hz					
Temperature drift		0.02%F.S./℃					
Output	Analog current	Output 4 ~ 20mA, allowable load resistance 500Ω					
	Analog voltage	0~10v output, output resistance 100Ω					
Digital output		RS232orRS485					
Operating voltage		9~36V					
Power consumption		1.5~2W					
Synchronous input		2.4~24V					
Logic output		Programming function,NPN:100mA Max,40V Max					
Ambient parameters	Degree of protection	IP67					
	Ambient temperature	–10℃~+60℃，No freezing					
	Ambient humidity	5%~95%RH，No condensation					
	Ambient illuminance	10000Lux（Low power），30000lux，>30000lux（High power）					
	Vibration resistance	20g/10~1000Hz，6 hours in each direction of XYZ					
	Shock resistance	30g/6ms					
Material		Housing: aluminum					
Weight		≈100g					
485 Voltage output		MLD27-5V-485	MLD27-15V-485	MLD27-30V-485	MLD27-100V-485	MLD27-500V-485	MLD27-1000V-485
232 Voltage output		MLD27-5V-232	MLD27-15V-232	MLD27-30V-232	MLD27-100V-232	MLD27-500V-232	MLD27-1000V-232
485 Current output		MLD27-5I-485	MLD27-15I-485	MLD27-30I-485	MLD27-100I-485	MLD27-500I-485	MLD27-1000I-485
232 Current output		MLD27-5I-232	MLD27-15I-232	MLD27-30I-232	MLD27-100I-232	MLD27-500I-232	MLD27-1000I-232

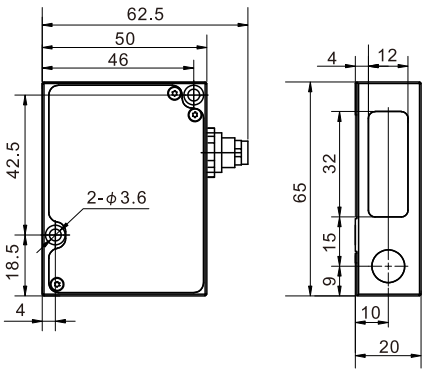
Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vibration
Temperature
Cables
Tester

Guidance

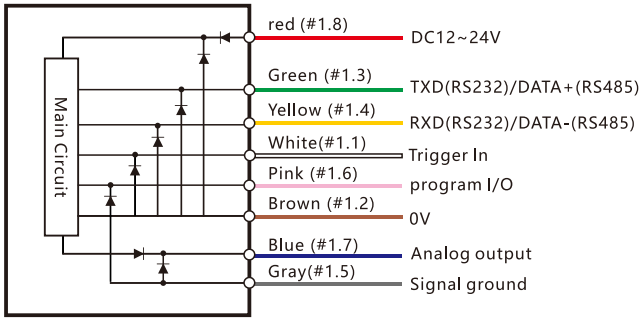
Displacement
TOF measurement
Mini digital display
Built-in controller
Linear measurement
Magnetic displacement
LiDAR Scanner
Color confocal

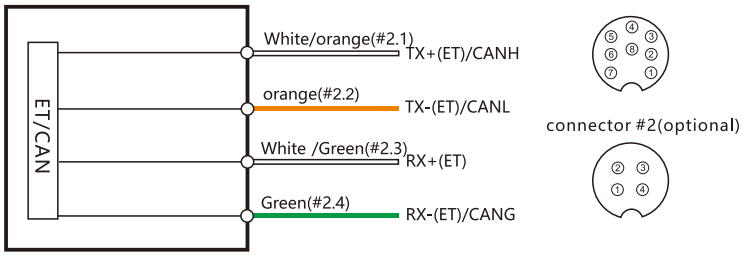
Dimensions

Unit: mm



Circuit diagram





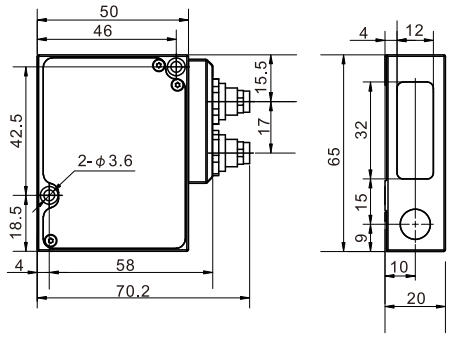
Built-in Controller

MLD27-H Series

Appearance						
Sensing type	Diffuse reflection					
Sensing distance	15~20mm	30~45mm	55~85mm	65~115mm	90~190mm	80~330mm
F.S	5mm	15mm	30mm	50mm	100mm	250mm
Light source: Medium. Wave length	Red semiconductor laser wavelength (default) : 660nm, blue semiconductor laser wavelength: 405nm					
Light source: Max. output power	⩽4.8mW			⩽20mW		
IEC/JIS	3R			3B		
Linearity	±0.1 (60 kHz); ±0.2 (120 kHz); ±0.3 (180 kHz)					
Repeat accuracy	0.01 (60 kHz); 0.02 (120 kHz); 0.03 (180 kHz)					
Sampling period	60 or 120 or 180 kHz (default 60K)					
Temperature drift	0.02%F.S./℃					
Output	Output 0 ~ 10V, output impedance 100Ω					
Digital output	Parameters: RS232 or 485, data transmission: Ethernet (UDP)					
Operating voltage	9~36V					
Power consumption	4.8W					
Synchronous input	2.4~5V(CMOS, TTL)					
Logic output	Programming function,NPN:100mA Max,40V Max					
Ambient parameters: Degree of protection	IP67					
Ambient parameters: Ambient temperature	−10℃~+60℃，No freezing					
Ambient parameters: Ambient humidity	5%~95%RH，No condensation					
Ambient parameters: Ambient illuminance	30000Lux					
Ambient parameters: Vibration resistance	20g/10~1000Hz，6 hours in each direction of XYZ					
Ambient parameters: Shock resistance	30g/6ms					
Material	Housing: aluminum					
Weight	110g					
485 output	MLD27-H5V-485	MLD27-H15V-485	MLD27-H30V-485	MLD27-H50V-485	MLD27-H100V-485	MLD27-H250V-485
232 output	MLD27-H5V-232	MLD27-H15V-232	MLD27-H30V-232	MLD27-H50V-232	MLD27-H100V-232	MLD27-H250V-232

Dimensions

Unit: mm



Circuit diagram