



Basic features	Principle	Triangle measurement			
	Shape	Square			
	Optics working principle	Diffuse reflective			
	Center of sensing distance	30mm	50mm	100mm	200mm
	Sensing distance	25–35mm	35–65mm	65–135mm	120–280mm
	Light source	Red LED laser wavelength: 655nm 1mWClass2			
	Spot size	φ40um	Φ50 μm	Φ80 μm	Φ140 μm
Electrical data	Switch mode	L.on/D.on mode/Button/RS-485 switching			
	Output mode	Switch output(NPN/PNP)/analog output(voltage/currency)			
	Response time	< 10ms/5ms/1.5ms			
	Linearity	±0.1% F.S.			±0.2% F.S.
	Repeat accuracy	10um	30um	70um	200um
	Temperature drift characteristics	0.03%/°C F.S.			
	Operating voltage	12~24V DC ± 10%			
	Consumption current	12V < 65mA, 24V < 40mA			24V < 40mA, 12V < 80mA
	Load current	≤100mA			
	Insulation resistance	> 500MΩ (500V DC)			
	Pressure resistant	< 0.1mA (1000V AC)			
	Circuit protection	Power supply reverse polarity protection/short circuit protection/overload protection/surge protection			
	Environmental conditions	Operating temperature	-10 ~ +45° C(no freezing)		
Operating humidity		35~85%RH (no condensation)			
Ambient illumination		Sunlight: ≤ 10000lux without interference; incandescent lamp: ≤ 3000lux			
Shock resistance		10~55Hz double amplitude 1.5mm, 2 hours each for XYZ direction			
Degree of protection		IP67			
Mechanical data	Cable	7 wires, 2m length			
	Size	20x28x45mm			
	Material	Body shell: die-cast aluminum; Front cover: acrylic			
	Weight	90g			
	Accessories	Cable connecting			
Model	NPN	MLD25-30NV	MLD25-50NV	MLD25-100NV	MLD25-200NV
	PNP	MLD25-30PV	MLD25-50PV	MLD25-100PV	MLD25-200PV

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories

Guidance

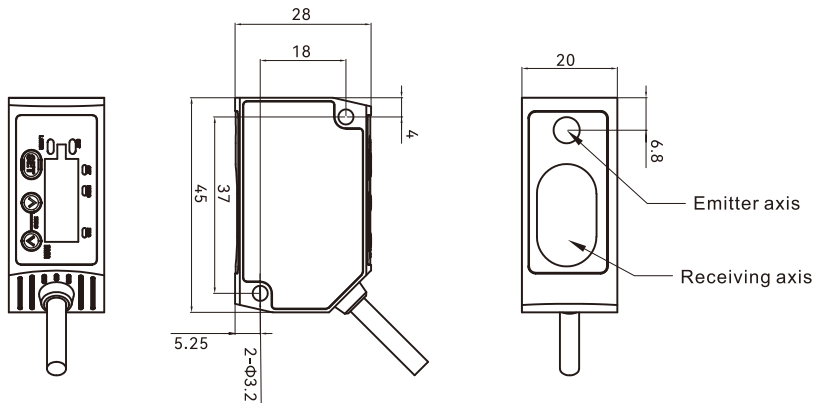
Displacement

Triangulation
Linear measurement
Magnetic displacement
LIDAR Scanner
Color confocal

Triangulation

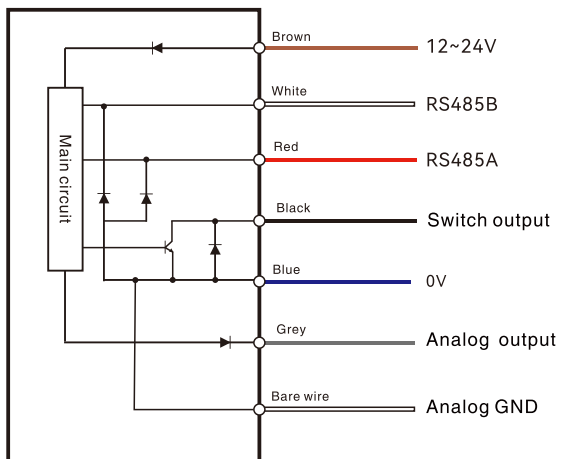
Dimensions

Unit: mm

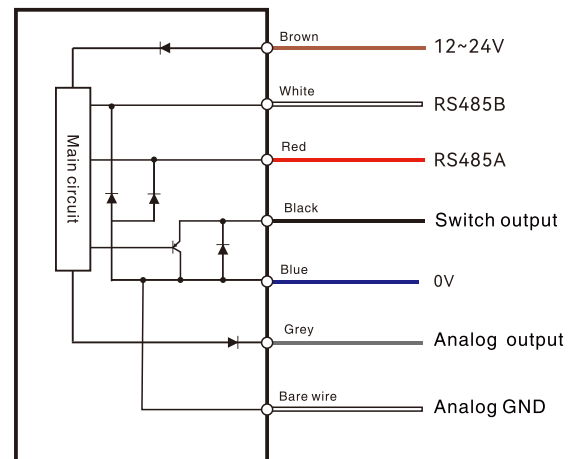


Circuit Diagram

NPN Output



PNP Output



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