

TOF Measurement Type

MLD11 Series



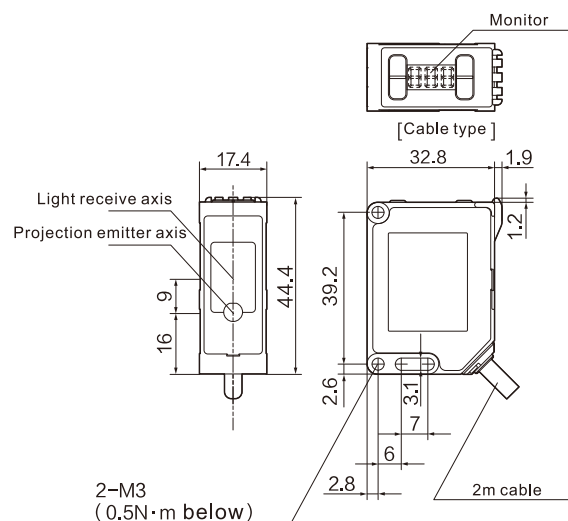
TOF principle

Appearance

Type	Analog output type		3CH switch output type
Sensing type	Diffuse reflection		
Sensing distance	250~2500mm		
Light source	Medium. Wave length	Red semiconductor laser diode (wavelength: 650mm, maximum output power: 64mW, light-emitting pulse: 7ns, light-emitting period: 11.11MHz)	
	Average output power	Below 390 μ w	
Laser class	Class1(IEC/JIS/FDA)		
Beam size	φ 10mm(when in 2.5m)		
Sampling period	below 200μs /0.5ms (When the average number of sampling is 1)		
Digital display	7-segment 3-digit LED		
Indicator	Output indicator: green Stability indicator: red Laser off indicator: light off	1 / 2CH output indicator: orange 3CH indicator: green Stability indicator: red Laser off indicator: light off	
External input	Laser off control/external teach input can be switched		
Output	Analog current	4~20mA output, load resistance ≤ 300Ω	—
	Analog voltage	0~10v output, output resistance 100Ω	—
	Switch output	Open—connector output(NPN/PNP switchable); Max: 100mA/30V DC; Voltage drop: 1.8V	
Current consumption	12~30V DC ± 10%		10~30V DC ± 10%
Operating current	≤60mA		
Voltage output	0~10v output, output resistance 100Ω		
Connection Type	φ 4.5mm / 2m cable		
Protective circuit	Reverse connection protection, over current protection		
Ambient parameters	Degree of protection	IP67	
	Ambient temperature	-10℃~+50℃, No freezing	
	Ambient humidity	35%~85%RH, No condensation	
	Ambient brightness	Sunlight≤20000Lux, Incandescent lamp≤3000Lux	
	Vibration resistance	10~55Hz Double amplitude1.5mm, XYZ three directions, 2 hours each	
	Shock resistance	500m/s² (Approx.50G), XYZ three directions 3 times each	
Material	Housing: PC, Lens: PMMA		
Weight	Cable type: ≈88g; Plug-in type: ≈48g		
Model No	MLD11-2500VA		MLD11-2500

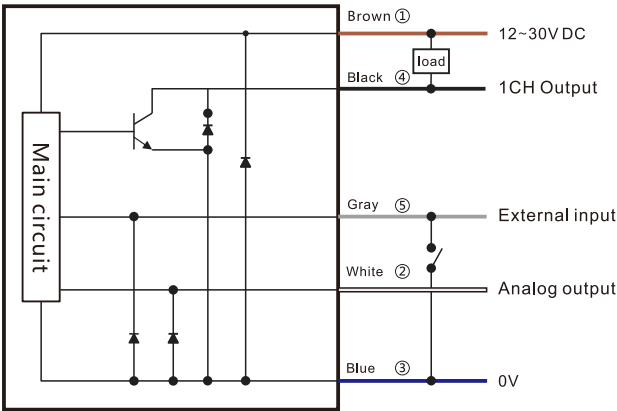
Dimensions

Unit: mm

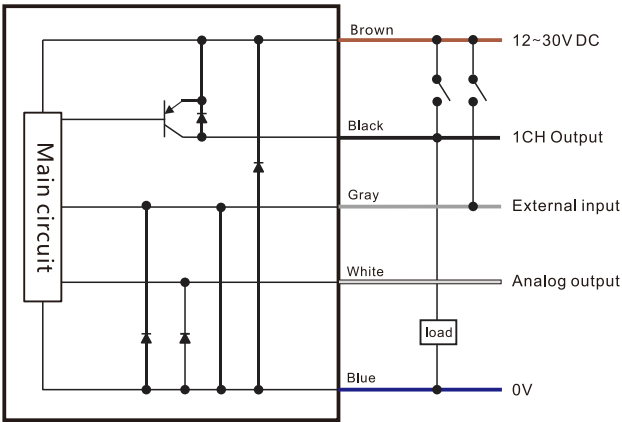


■ Analog output type

■ NPN

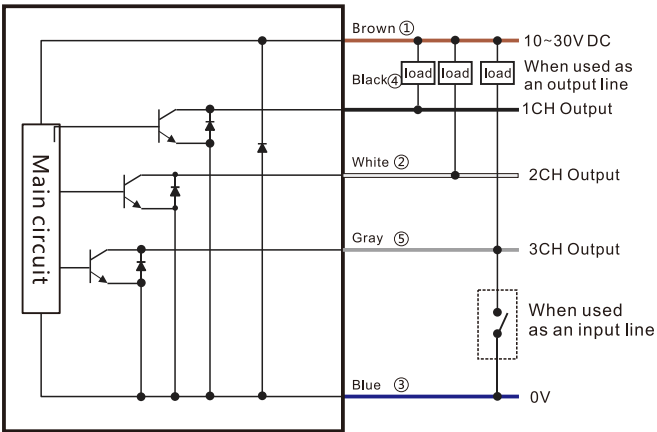


■ PNP

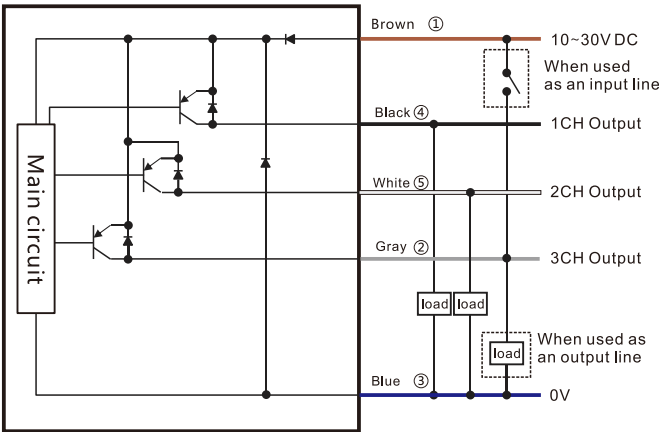


■ 3CH switch output type

■ NPN



■ PNP



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Vibration

Temperature

Annexes

Guidance

Displacement

TOF measurement

Mini digital display

Built-in controller

Linear measurement

Magnetic displacement

LIDAR Scanner

Color confocal