ETD Series

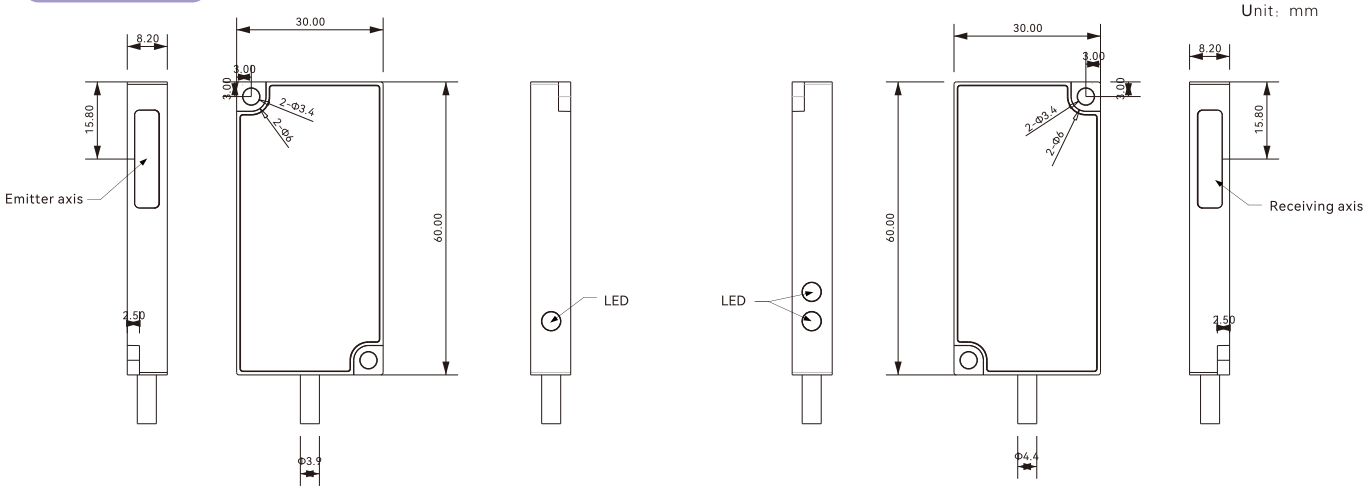
NEW!

CE

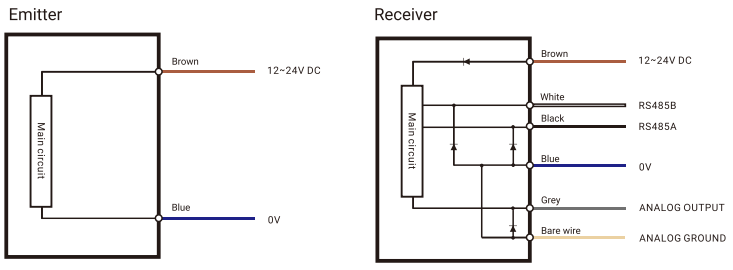
Appearance		
Detection method		Through–beam laser measuring (CMOS mode)
Detection range		Edge detection mode ± 6mm Diameter detection mode 12mm
Setting distance		0 ~ 500mm
Light source		Red semiconductor laser level 1
Laser class		Class 1
Minimum detectable object		0.5mm(When setting a distance of 500mm)
Repeatability		1μm(When setting a distance of 20mm) 3μm(When setting a distance of 100mm) 5μm(When setting a distance of 500mm)
Linear accuracy		± 0.12%F.S.(When setting a distance of 20mm) ± 0.4%F.S.(When setting a distance of 100mm)
Analog output	Voltage	Output range: 0V~5V, output impedance: 100Ω
	Current	Output range: 4mA~20mA , load: less than 300Ω
Communication		485 communication hexadecimal
Measurement mode		Auto Edge Mode, Edge Mode, ID/Gap Mode, Width/Diameter Mode
Ambient temperature	Operation temperature	–10 ~ +45℃(No freezing，No condensation)
	Storage temperature	–20 ~ +60℃
Ambient humidity	Operation humidity	35 ~ 85%RH
	Storage humidity	35 ~ 85%RH
Voltage		DC12~24V ± 10%
Current consumption		Emitting: 10mA or less（DC24V） Receiving: 70mA or less（DC24V）
Insulation		Insulation resistance >20MΩ at DC500V between all terminals and housing
Pulse resistance		Durable 500m/s², 3 times each in X,Y,Z three directions.
Anti–vibration		Durable 10 ~ 55Hz complex amplitude 1.5mm, 2 hours each in X,Y,Z three directions
Ambient illumination		Incandescent lamp: the illuminance of the light–receiving surface is below 3,000lux
Temperature drift		± 0.03%F.S./℃
Indicator light		Emitter (laser emission indicator green) Receiver (optical axis adjustment light green, judgment output light red)
Protection degree		IP50
Shell		Aluminum alloy metal shell
Outgoing way		Receiver:5–core composite cable 2m Emitter: 2–core cable 2m
Model		ETD-0612

Dimensions

Unit: mm



Circuit Diagram



Through-beam edge sensor

ETD Series

NEW!

CE

Appearance	
Installation	DIN mounting guide
Operation voltage	+24VDC ± 10%
Power consumption per controller	Below 100mA (when connecting sensors)
Number of sensors connected	Two sets of sensors
Communication method with the sensor	RS485
Display screen	240*240TFT screen
Number of controllers connected in parallel	Up to 16 controllers can be connected
Indicator light	Output 1–3 and functional indicator lights in red
Analog output	Analog output current can be switched between 4–20mA and voltage between 0–5V
Digital output	3 channels of output, NO, NC, PO, PC can be switched
External input	3 channels of input, NPN and PNP selectable
Display resolution	1μm
Display range	–99.999mm–99.999mm
Protection structure	IP40
Operating temperature	-10℃~+50℃
Operating humidity	35%RH–85%RH
Insulation resistance	All connection terminals and casing resistance are above 20MΩ
Voltage resistance	All connection terminals are voltage resistant up to AC 1000V
Vibration resistance	Frequency of 10–55Hz, double amplitude of 1.5m, in X, Y, and Z directions, for two hours each
Impact resistant	98m/s² (APPROX. 10G) 5 times each in the x, y, and z directions
Model	**CR-M02**

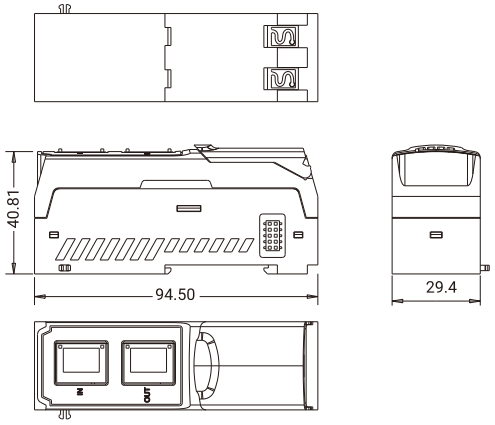
NEW!

CE

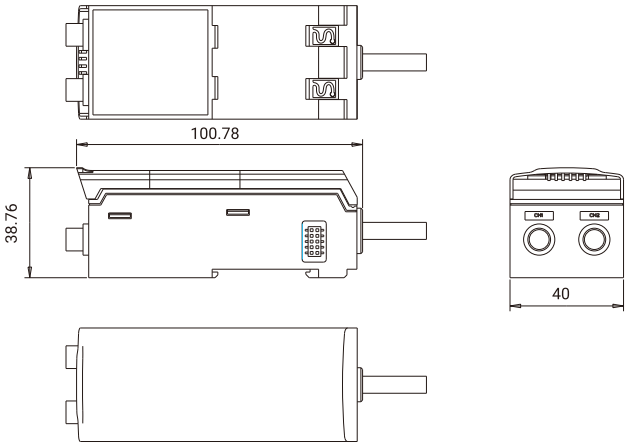
Appearance	
Installation	DIN rail installation
Operation voltage	24V DC(10~30V DC)
Indicator light	PWR: Power Indicator Light / Green RUN: Running Indicator Light / Green ERR: Error Indicator Light / Red Sensor Communication Indicator Light: Red Light (RTU Communication Exception) Ethernet Port: (Green) D–BUS: RTU Communication Normal / Green Light Part of RTU Communication Exception / Alternating Red and Green Lights No RTU Communication Activity / Off Ethernet Port (Green): Ethernet Port has Established Effective Network Connection / On Ethernet port is in network activity status/flashing Ethernet port has not established a network connection or port is abnormal/off.
100 megabit Ethernet port	10/100Base–T(X), RJ45, automatic flow control, full/half duplex mode, MDI/MDI–X auto–detection
Programming port	Software programming port uses 8–bit wiring terminals with a spacing of 2.0mm, occupying 2–5 positions from the left
Console port	CLI command management port uses 8–bit wiring terminals with a spacing of 2.0mm, occupying 6 to 8 positions from the left
RS–485 Serial	Supports 2 RS–485 serial ports, with one reserved, using 10–bit wiring terminals with a 2.0mm spacing. The serial ports occupy 4 bits
Reset button	Reset button
Standby Power Consumption at Normal Temperature	The wiring terminal has 10 spots with a spacing of 2.0mm, and the power takes up 2 spots. 0.7w@10VDC 0.7w@20VDC 0.7w@30VDC
Full Load Power Consumption at Normal Temperature	0.7w@10VDC 0.7w@20VDC 0.7w@30VDC
Full Load Power Consumption at High Temperature	0.8w@10VDC 0.8w@20VDC 0.8w@30VDC
Operating temperature	–40℃~75℃
Storage temperature	–40℃~85℃
Operating humidity	5%~95%（No condensation）
Model	**CTM01-EC**

Unit:mm Dimensions

CTM01-EC



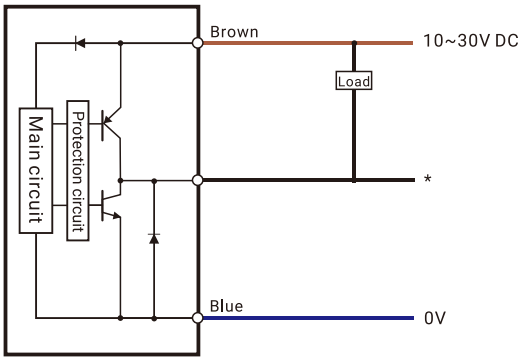
CR-M02



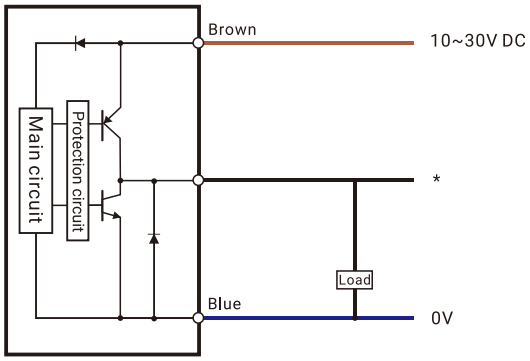
Circuit Diagram

INPUT CIRCUIT DIAGRAM

NPN Output



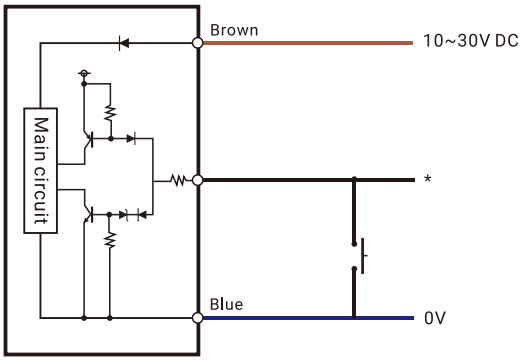
PNP Output



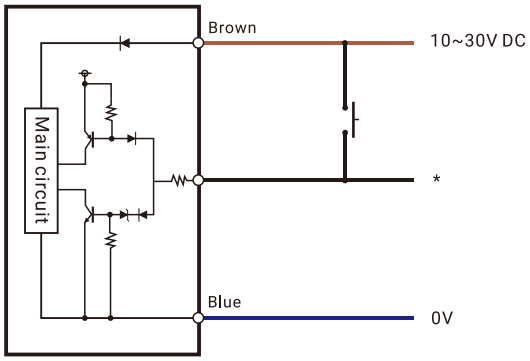
* Black (HIGH detection output) / White (LOW detection output) / Grey (GO detection output) / Green (Verification input)

OUTPUT CIRCUIT DIAGRAM

NPN Output



PNP Output



* Pink (External Input 1) / Yellow (External Input 2) / Pink Purple (External Input 3) / Purple (External Input 4)