

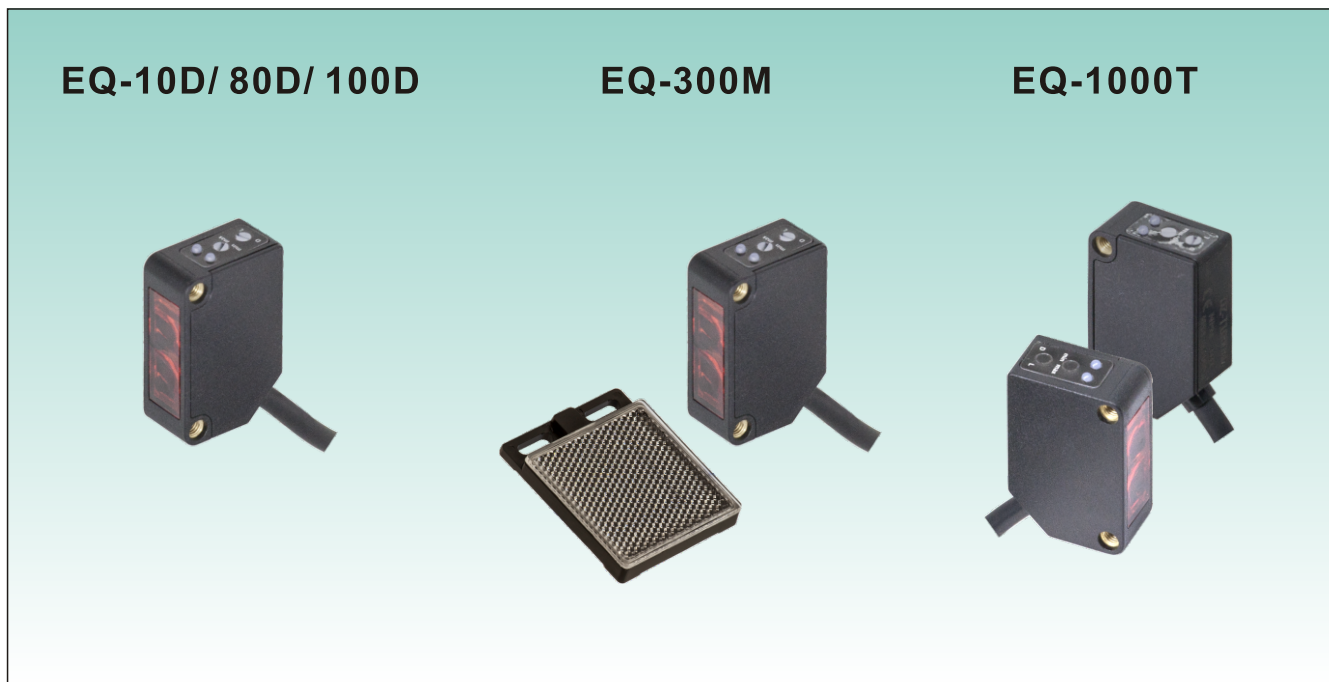


Photo sensor

EQ Series (Small square type)

- Small size 11.0(W) × 20.0(H) × 32.7(L)
- Power supply reverse polarity protection
- IP65

MODEL LIST

Appearance	Model	Control Method	Sensing Distance	Operating Voltage	Light Source
	EQ-10D-N	NPN, NO+NC	10cm	12~24VDC 3wire	Infrared
	EQ-10D-P	PNP, NO+NC			
	EQ-100D-N	NPN, NO+NC	100cm		
	EQ-100D-P	PNP, NO+NC			
	EQ-80D-NR	NPN, NO+NC	80cm	12~24VDC 3wire	Red light LED
	EQ-80D-PR	PNP, NO+NC			
	EQ-300M-NR	NPN, NO+NC	300cm	12~24VDC 3wire	Red light LED
	EQ-300M-PR	PNP, NO+NC			
	EQ-1000T-N	NPN, NO+NC	100cm	12~24VDC 3wire	Infrared
	EQ-1000T-P	PNP, NO+NC			

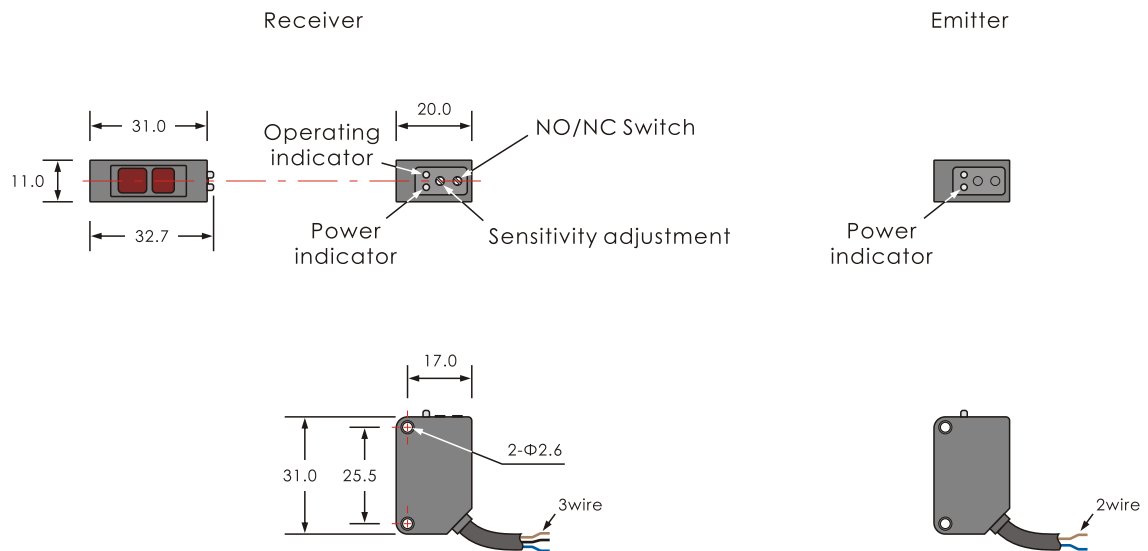
SPECIFICATIONS

SENSING METHOD	Diffuse-reflective	Mirror reflex	Through-beam
LIGHT SOURCE	Infrared/ Red light LED		Infrared
RESPONSE FREQUENCY	1ms		
DIFFERENTIAL TRAVEL	20% max. of sensing distance		
CONTROL OUTPUT	Light-ON/Dark-ON selectable by switch		
OPERATING VOLTAGE	12~24VDC ripple(P-P) 10% max.		
LEAKAGE CURRENT	< 30mA		Emitter : < 30mA Receiver: < 15mA
RESET TIME	1ms (Output, Reset)		
LOAD CURRENT	100mA max.		
RESIDUAL VOLTAGE	Load current < 15mA : 0.3V max. Load current < 100mA: 0.8V max.		
INDICATOR	Operation indicator(orange), Power indicator(green)		
PROTECTION CIRCUITS	Reverse polarity and Load short-circuit protection		
AMBIENT TEMPERATURE	-25°C to 55°C		
AMBIENT HUMIDITY	35 to 85%RH		
AMBIENT ILLUMINATION	Incandescent lamp: 5000 lx max./ Sunlight: 10000 lx max.		
INSULATION RESISTANCE	20MΩ or more between input terminals and case(ground) at DC 500V		
DIELECTRIC STRENGTH	1000VAC for 1 min between charged parts and noncharged parts		
VIBRATION RESISTANCE	Destruction: 10 to 55 Hz, 1.5mm double amplitude for 2 hours each in X,Y and Z directions		
SHOCK RESISTANCE	Destruction: 500 m/S ² 3 time each in X,Y and Z directions		
DEGREE OF PROTECTION	IP65 / Oil resistant		
MATERIALS	Case: PBT Sensing face: PC Screw and Nut: Nickel plated brass Mounting bracket: Nickel plated iron Screwdriver : Plastic steel		
CONNECTION METHOD	Pre-wired Φ4.8 × 2m × 3wire PVC		Pre-wired Φ4.8 × 2m PVC (Emitter 2wire/ Receiver 3wire)
WEIGHT	Approx. 50g	Approx. 70g	Approx. 100g
ACCESSORIES	Mounting bracket Screwdriver Screws × 2	Reflector Mounting bracket Screwdriver Screws × 2	Mounting bracket × 2 Screwdriver Screws × 4

DIMENSIONS

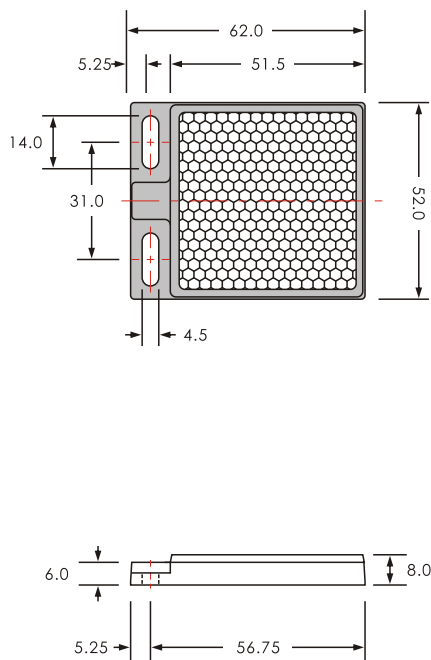
(Units: mm)

EQ Series



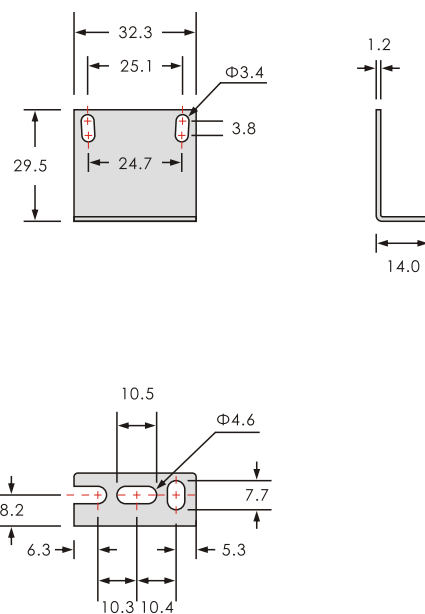
Reflector

Type: RM-1



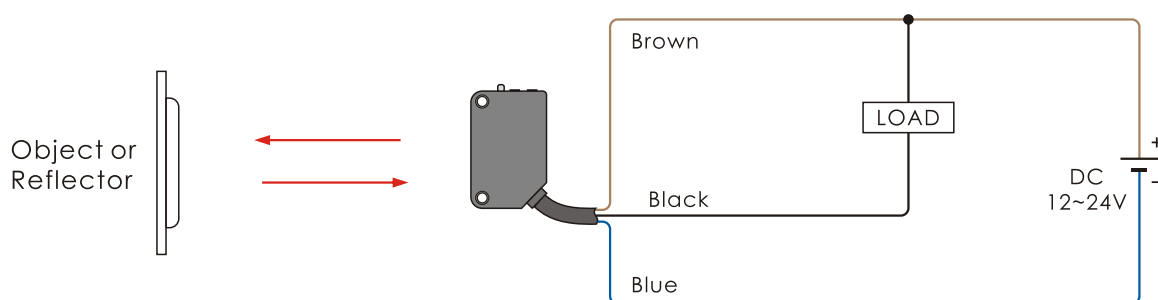
Mounting Bracket

Type: MB-L32

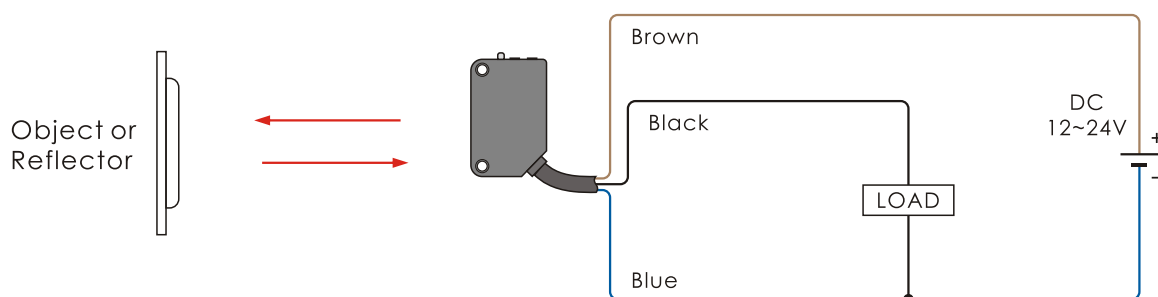


CONNECTION DIAGRAMS

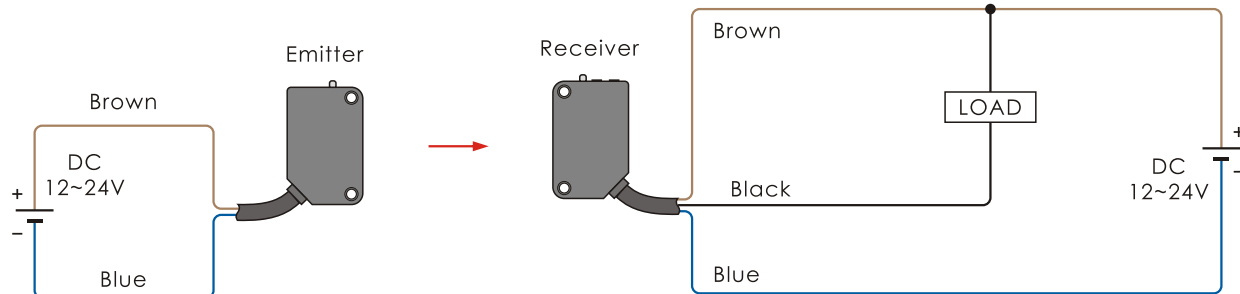
Diffuse-reflective or Mirror reflex type **NPN NO+NC**



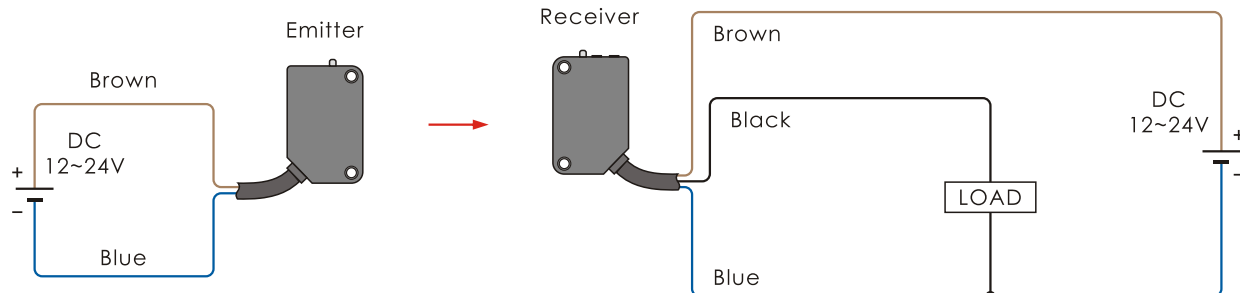
Diffuse-reflective or Mirror reflex type **PNP NO+NC**



Through-beam type **NPN NO+NC**



Through-beam type **PNP NO+NC**



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