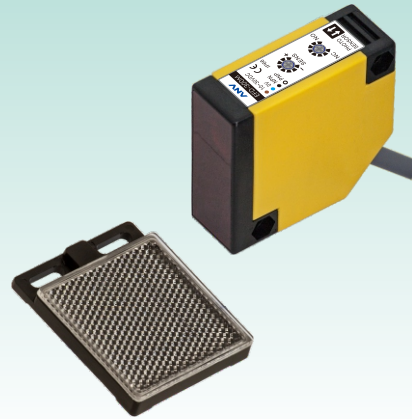


**EFD-30D/ 70D/ 100D
/ 200D**



**EFD-300M/ 500M
/ 800M/ 1000M**

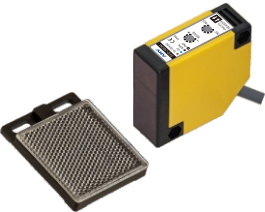


Long-distance photo sensor

EFD Series

- Long-distance applicable occasions
- IP66

MODEL LIST

Appearance	Model	Sensing Distance	Control Method	Operating Voltage	Light Source
	EFD-30D	30cm	NPN+PNP NO/NC	10~30VDC 5wire	Infrared
	EFD-70D	70cm			
	EFD-100D	100cm			
	EFD-200D	200cm			
	EFD-300M	300cm	NPN+PNP NO/NC	10~30VDC 5wire	Red LED
	EFD-500M	500cm			
	EFD-800M	800cm			
	EFD-1000M	1000cm			

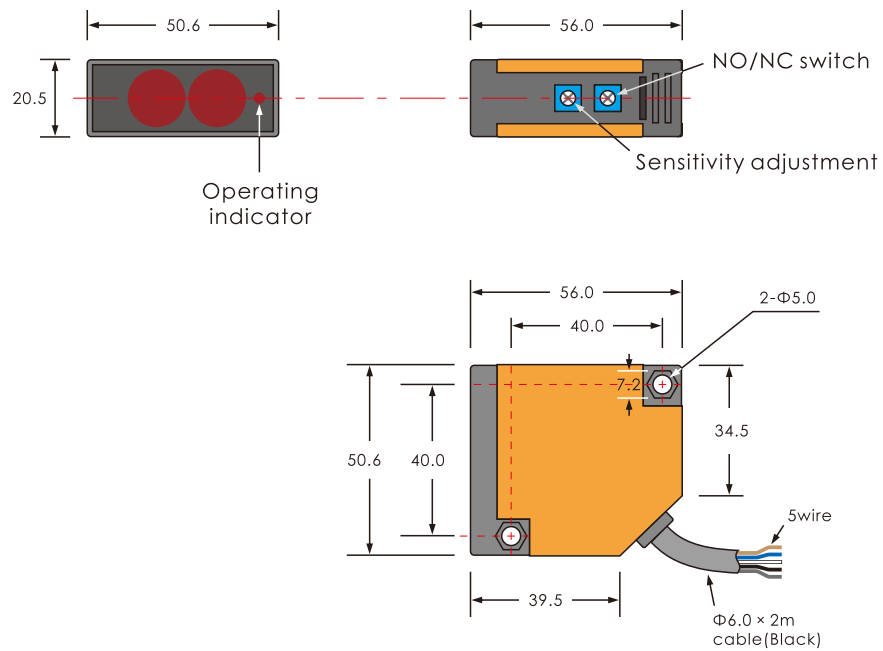
SPECIFICATIONS

SENSING METHOD	Diffuse-reflective	Mirror reflex
LIGHT SOURCE	Infrared	Red light LED
RESPONSE FREQUENCY	400Hz	
DIFFERENTIAL TRAVEL	10% max. of sensing distance	
CONTROL OUTPUT	NPN+PNP, Light-ON/Dark-ON selectable by switch	
OPERATING VOLTAGE	10~30VDC ripple(P-P) 10% max.	
LEAKAGE CURRENT	< 30mA	
RESET TIME	1ms	
LOAD CURRENT	DC 30V 100mA max.	
INDICATOR	Operation indicator(red)	
PROTECTION CIRCUITS	Reverse polarity and Load short-circuit protection, Surge suppressor	
AMBIENT TEMPERATURE	-25°C to 70°C	
AMBIENT HUMIDITY	35 to 95%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	IP66 / Oil resistant	
MATERIALS	Case: PBT, Sensing face: Acrylic Screw and Nut: Nickel plated iron Mounting bracket: Nickel plated iron Screwdriver : Plastic steel	
CONNECTION METHOD	Pre-wired Φ6.0 × 2m × 0.23mm 5wire PVC	
WEIGHT	Approx. 210g	Approx. 230g
ACCESSORIES	Mounting bracket Screwdriver Screws × 2 Nuts × 2	Reflector Mounting bracket Screwdriver Screws × 2 Nuts × 2

DIMENSIONS

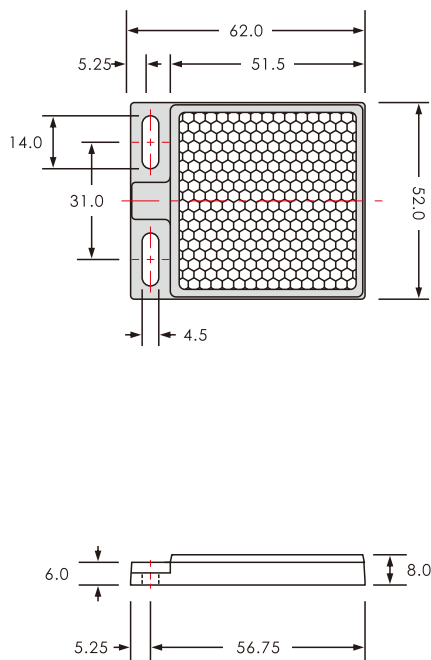
(Units: mm)

EFD Series



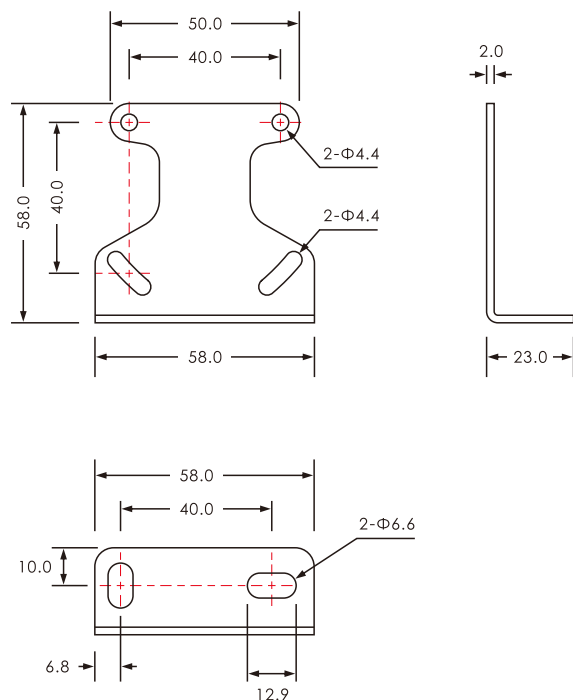
Reflector

Type: RM-1



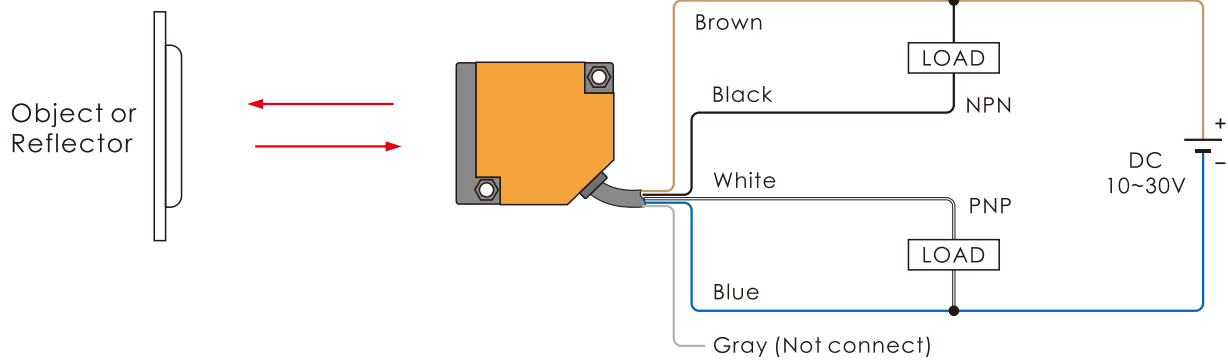
Mounting Bracket

Type: MB-L58



CONNECTION DIAGRAMS

EFD Series



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