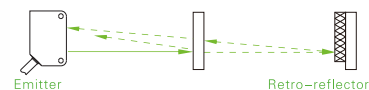


Transparent Objects Detection

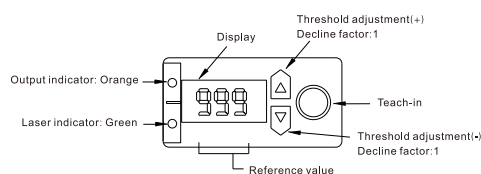
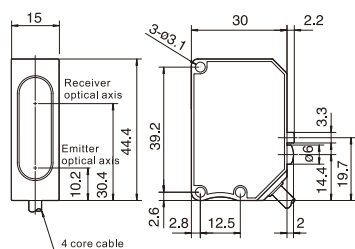
ESQ Series



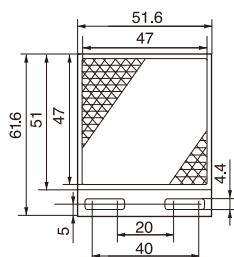
Type	High resolution type		Long distance type
Sensing type	Retro-reflection (Coaxial beam)		
Sensing distance	1.5m		4m
Beam size	φ 15mm/1.5m		φ 20mm/3.5m
Output type	NPN/PNP open-collector output, ≤100mA /30V DC		
Switch type	Selectable L.on/D.on		
Indicator	Output indicator: Orange; Laser indicator: Green		
Digital display	7 segments, 3-digit Red LED display		
Response time	0.7 ms		
Time delay	0~999ms Value added unit:1ms;1~10ms Value added unit :1ms		
Sensitivity adjustment	Teach-in button		
Light source	Laser(650nm), Max 1mW		
Laser class	Class2		
Operating voltage	10~30V DC ± 10%		
Current consumption	35mA		
Ambient brightness	Sunlight≤10000Lux, Incandescent lamp≤3000Lux		
Ambient temperature	-10~+50℃, No freezing		
Ambient humidity	35~85% RH, No condensation		
Insulation resistance	≥20MΩ(500V DC)		
Impact resistance	50G(500m/s²), XYZ three directions		
Certificate	IEC, EC		
Degree of protection	IP67		
Material	Housing: Antibacterial ABS; lens: PMMA		
Accessories	Bracket		
Model No.	NPN	ESQ-150N 	ESQ-400N
	PNP	ESQ-150P	ESQ-400P

Dimensions

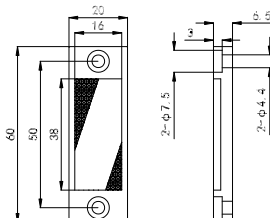
Unit: mm



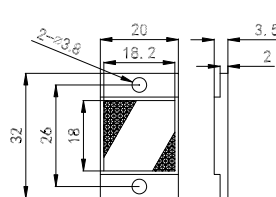
Reflector:



(Standard TD-13)



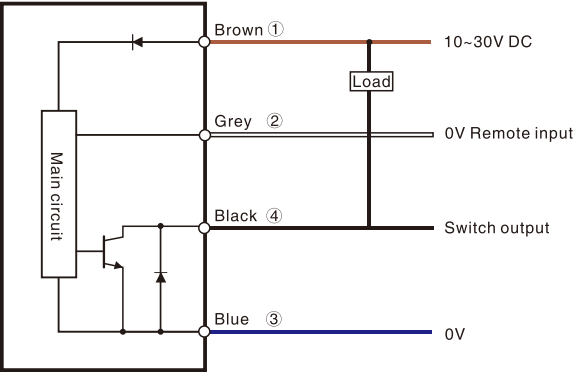
(Optional TD-14)



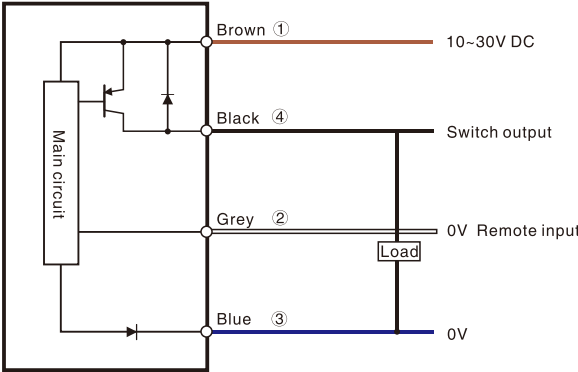
(Optional TD-15)

Circuit diagram

NPN Output



PNP Output



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Vibration

Temperature

Annexes

Guidance

Laser sensors

Square

BGS

Transparent objects detection