

Appearance



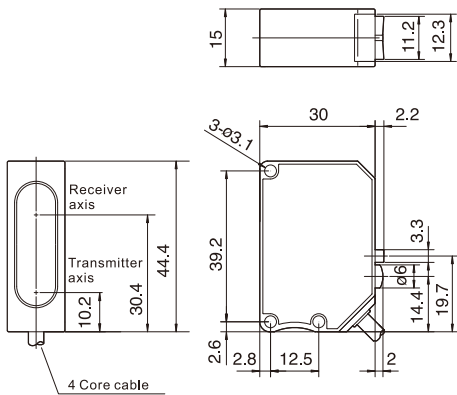
Type	Long distance type		Short distance type	
Sensing type	Diffuse reflection			
Set distance	50~300mm		20~100mm	
Sensing distance	100~700mm	10~300mm	5~100mm	
Beam size	φ 6mm/200mm	φ 1.5mm/300mm	φ 1mm/100mm	
Switch type	Selectable L.on/D.on			
Indicator	Output indicator: Orange; Laser indicator: Green			
Response time	0.7 ms	0.3 ms		
Sensitivity adjustment	Four-turn potentiometer			
Light source	Laser(650nm)			
Laser class	Class2	Class1		
Operating voltage	10~30V DC ± 10%			
Current consumption	35mA	≤30mA		
Ambient temperature	-10℃~+50℃, No freezing			
Ambient humidity	35%~85%RH, No condensation			
Impact resistance	50G(500m/s²)			
Degree of protection	IP67			
Material	Housing: ABS+ fiber glass; Lens: PMMA			
Accessories	Bracket			
Model No.	NPN	ELS-ZL70N	ELS-ZL30N 	ELS-ZL10N
	PNP	ELS-ZL70P	ELS-ZL30P	ELS-ZL10P

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Vibration
Temperature
Annexes

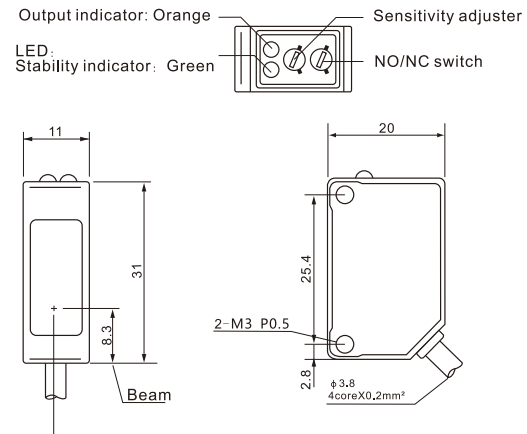
Dimensions

Unit: mm

ELS-ZL70N(P)



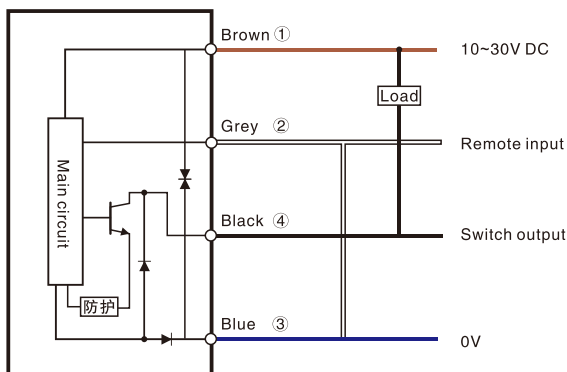
ELS-ZL30N(P)/ELS-ZL10N(P)



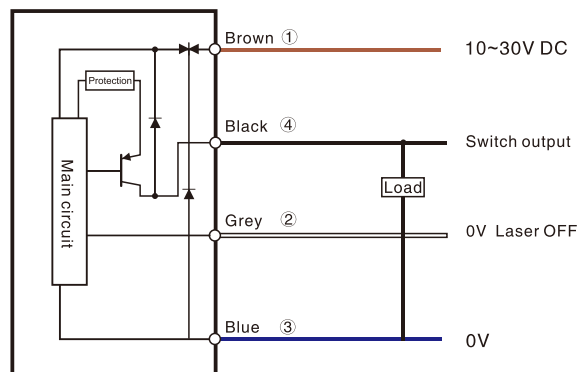
Circuit diagram

ELS-ZL30

NPN Output



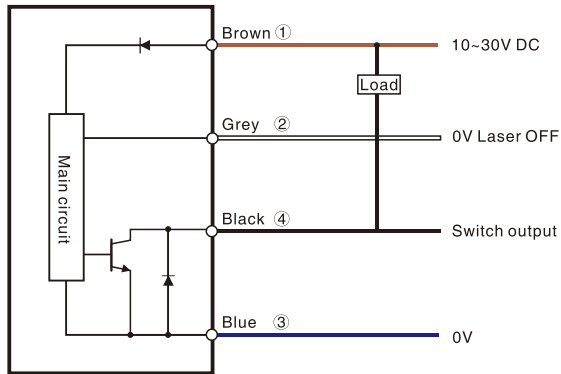
PNP Output



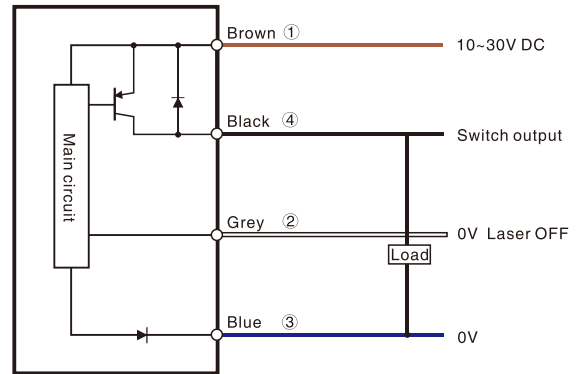
Circuit diagram

ELS-ZL70/ELS-ZL10

NPN Output



PNP Output



TOF Principle



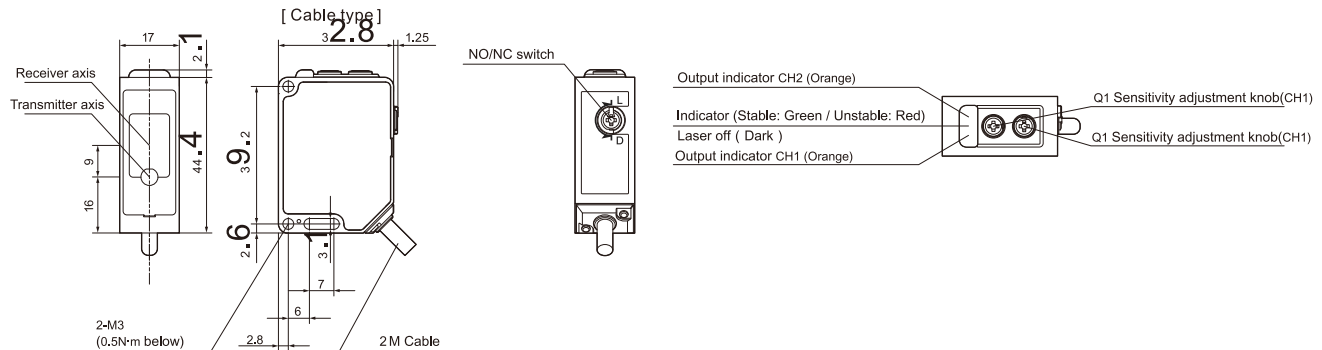
Appearance

Type	Long distance
Sensing type	Diffuse reflection
Sensing distance	0~4.5m
Beam size	About 17mm (4.5m away)
Switch type	Selectable L.on/D.on
Indicator	Output indicator: Orange; Laser indicator: Green
Response time	≤0.5ms
Sensitivity adjustment	Four-turn potentiometer
Light source	Laser(650nm)
Laser class	Class1
Operating voltage	10~30V DC ± 10%
Current consumption	≤85mA
Ambient temperature	-10°C~+50°C, No freezing
Ambient humidity	35%~85% RH, No condensation
Impact resistance	50G(500m/s ²)
Degree of protection	IP67
Material	Housing: ABS+ fiber glass; Lens PMM
Model No.	NPN
	PNP
	ELT-S450N
	ELT-S450P

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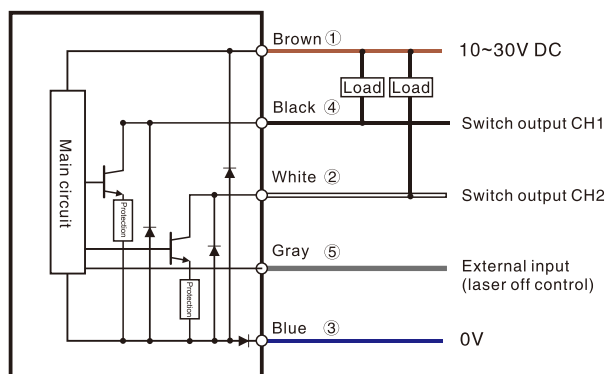
Dimensions

Unit: mm



Circuit diagram

NPN Output



PNP Output

