

Appearance						
Shape	F Shape	T Shape	R Shape	L Shape	K Shape	Y Shape
Sensing distance	5mm (Slot width)					
Standard sensing objects	Opaque objects (Size:1.2*1.8mm)					
Repeat accuracy	< 0.03mm					
Output type	NPN or PNP open-collector					
Switch type	Selectable L.on/D.on					
Indicator	Red LED					
Response frequency	3KHz					
Response time	≤0.3ms					
Light source	Infrared LED(940nm)					
Operating voltage	5~24V DC					
Voltage drop	0.2V or less (load current 10mA), 1.5V or less (load current 100mA)					
Current consumption	<20mA					
Protective circuit	Surge protection , Reverse polarity protection					
Ambient temperature	Operation: -25℃~+55℃, Storage: -30℃~+80℃, no freezing					
Ambient humidity	Operation: 5%~85%, Storage: 5%~95%, no condensation					
Ambient brightness	Incandescent lamp ≤1000Lux					
Withstand voltage	AC, 1000V 1 minute between all supply terminals connected to the housing					
Vibration resistance	10 to 55 Hz with 1.5mm amplitude for 2 hours each in X, Y, and Z directions					
Insulation resistance	Between all supply terminals connected with the housing, 20MΩ or more (based DC250V)					
Degree of protection	IP50					
Material	PC					
Connection method	Connector					
NPN Light on when objects are detected	SF-302N-E	ST-303N-E HOT	SR-304N-E	SL-305N-E HOT	SK-306N-E	SY-307N-E HOT
NPN Light off when objects are detected	SF-302NA-E	ST-303NA-E HOT	SR-304NA-E	SL-305NA-E HOT	SK-306NA-E	SY-307NA-E HOT
PNP Light on when objects are detected	SF-302P-E	ST-303P-E	SR-304P-E	SL-305P-E	SK-306P-E	SY-307P-E
PNP Light off when objects are detected	SF-302PA-E	ST-303PA-E	SR-304PA-E	SL-305PA-E	SK-306PA-E	SY-307PA-E

Remarks: SL-305NA/PA-E, suggest to install with small-head or non-standard M3(diameter less than 5.2mm) screws; SK-306NA/PA-E, suggest to install with universal M3.5 screws; for other models, please take regular M3 screws for mounting
Cable: ME-1007 (P:O-11)

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Code Readers

Vibration

Temperature

Accessories

Guidance

Slot type sensors

Micro slot type

Slot type

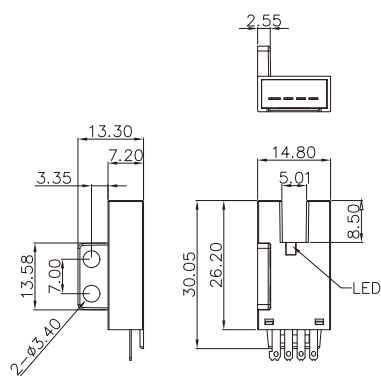
Wide slot type

Label detection

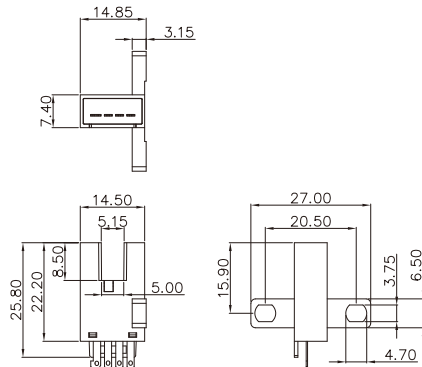
Dimensions

Unit: mm

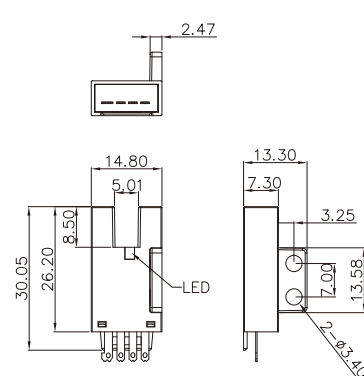
F Shape



T Shape



R Shape

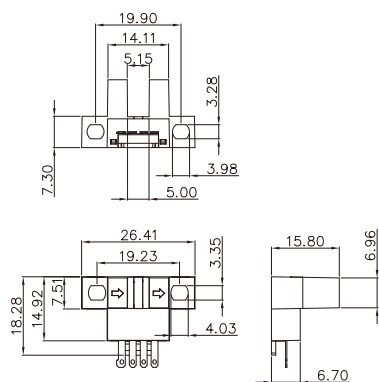


Slot Type

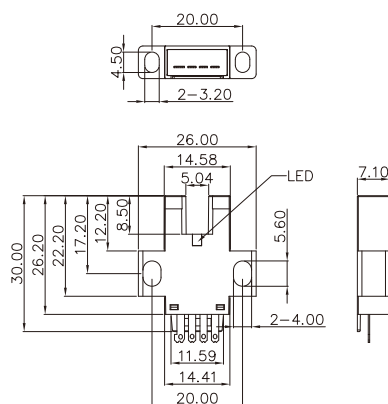
Dimensions

Unit: mm

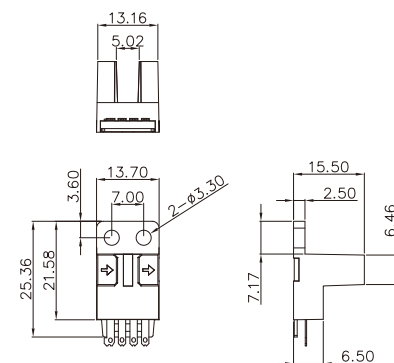
L Shape



K Shape

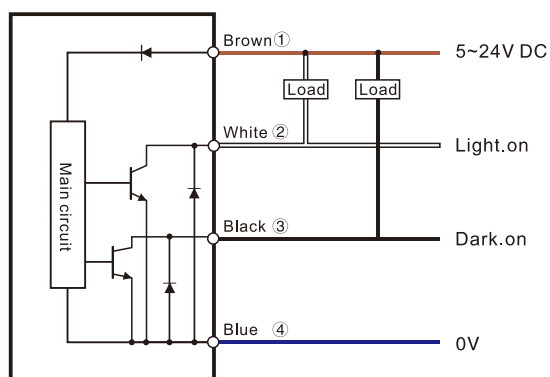


Y Shape

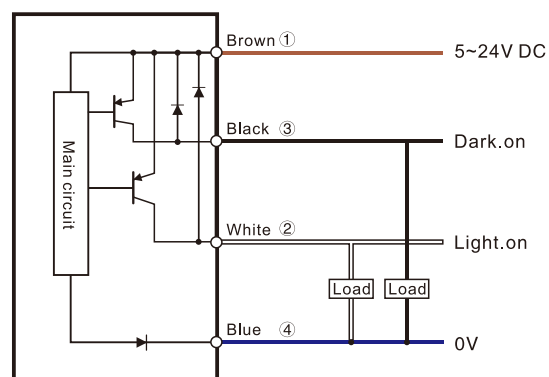


Circuit diagram

NPN



PNP



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