















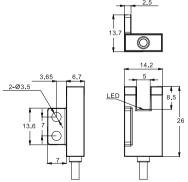


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Shape		F Shape	T Shape	R Shape	L Shape	K Shape	Y Shape	
Sensing distance		5mm (Slot width)						
Standard sensing object		Opaque objects (Size: 1.2*1.8mm)						
Repeat accuracy		0.01mm						
Output type		NPN or PNP open—collector						
Switch type		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		<1.5V (load current 100mA, 2m cable length)						
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, 20M Ω or more (based DC250V)						
Degree of protection		IP50						
Material		PC						
Connection method		2M 4core cable						
NPN	Light on when objects are detected	SF-302N-SW	ST-303N-SW	SR-304N-SW	SL-305N-SW	SK-306N-SW	SY-307N-SW	
	Light off when objects are detected	SF-302NA-SW	ST-303NA-SW	SR-304NA-SW	SL-305NA-SW	SK-306NA-SW	SY-307NA-SW	
PNP	Light on when objects are detected	SF-302P-SW	ST-303P-SW	SR-304P-SW	SL-305P-SW	SK-306P-SW	SY-307P-SW	
	Light off when objects are detected	SF-302PA-SW	ST-303PA-SW	SR-304PA-SW	SL-305PA-SW	SK-306PA-SW	SY-307PA-SW	

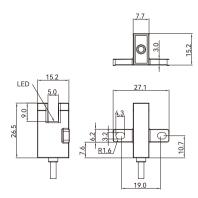
Remarks: SL-305NA/PA-SW, suggest to install with small-head or non-standard M3(diameter less than 5.2mm) screws; SK-306NA/PA-SW, suggest to install with universal M3.5 screws; for other models, please take regular M3 screws for mounting. Recommend installing with a torque less than 0.6N.

Unit: mm

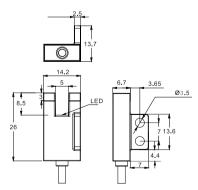




T Shape



R Shape



Fiber Optic

Photoelectric

Proximity

Laser

Displacement

Magnetic Contact

Area

Ultrasonic Vision

Code Readers

Vibration

Temperature

Accessories

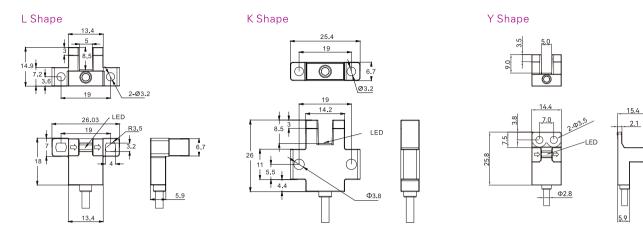
Guidance

Slot type sensor

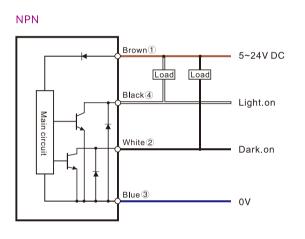
Mirco slot type Slot type

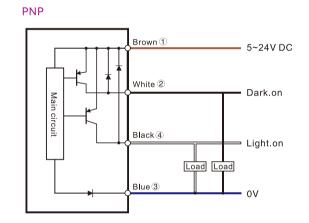
Slot Type

Dimensions Unit: mm



Circuit diagram





7.1

Photoelectric

Laser
Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Code Readers

Vibration

Temperature

Accessories

Fiber Optic

Guidance

Mirco slot type

Slot type

Wide slot type

Label detection



Remarks: SL-305NA/PA-SE, suggest to install with small-head or non-standard M3(diameter less than 5.2mm) screws; SK-306NA/PA-SE, suggest to install with universal M3.5 screws; for other models, please take regular M3 screws for mounting. Recommend installing with a torque less than 0.6N. Cable: ME-1007 (P:O-11)

SR-304PA-SE

SL-305PA-SE

SK-306PA-SE

Light off when objects are detected

Unit: mm

SF-302PA-SE

ST-303PA-SE

Dimensions

SY-307PA-SE

F Shape

T Shape

R Shape

R Shape

Fiber Optic

Slot Sensors

Photoelectric
Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Code Readers

Slot type sensors Mirco slot type

Temperature

Accessories

Guidance

Slot type

Slot Type

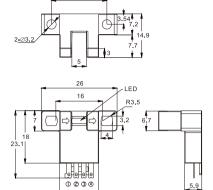
Dimensions

Unit: mm

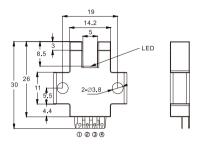
L Shape

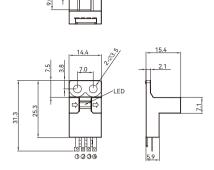
pe K Shape

Y Shape



19 25.4 2-Ø3.2

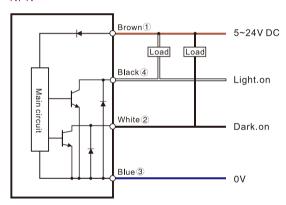




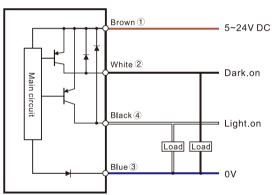
Circuit diagram

13.4

NPN







Laser
Proximity
Displacement
Magnetic
Contact

Fiber Optic

Photoelectric

Area

Vision

Code Readers

Vibration Temperature

Accessories

Guidance

Slot type sensors Mirco slot type









Model	ST-603NA-E2 SY	-607NA-E2				
Connection	Connector					
Housing material	PC					
Degree of protection	IP50					
Ambient brightness	Incandescent lamp≤1000Lux					
Vibration resistance	10~55Hz with 1.5mm amplitude for 2 hours each in X, Y and Z direct	etions				
Electrical Fast Transient						
Static electricity	±8000V					
Insulation resistance	±1000V 50/60Hz 60s					
Ambient humidity	5~85%RH, Storage: 5~95%RH					
Ambient temperature	Operation: —25℃–55℃, Storage: —30℃–80℃, no freezing					
Protective circuit	Short circuit protection/Reverse polarity protection					
_oad current	<100mA					
Current consumption	<15mA					
Residual voltage	Below 0.4V (Load current: 40mA)					
Operating voltage	5~24V DC					
Response frequency	3KHz					
Repeat accuracy	Below 0.01mm					
Hysteresis	Below 0.05mm					
Indicator	Red LED					
Switch mode	L.on/Don selectable					
Output	NPN open-collector					
Detected objects	>1.2*1.8mm,opaque					
Light source	RedLED (940nm)					
Sensing distance	6mm (slot width)					
Sensing type	Thru-beam					

Fiber Optic

Photoelectric Laser

Proximity

Displacement

Magnetic

Contact Area

Ultrasonic

Vision

Code Readers

Vibration

Temperature

Accessories

Guidance

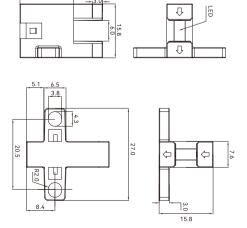
Slot type sensors Mirco slot type Slot type

Wide slot type Label detection

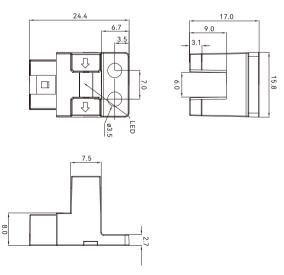
Dimensions

Unit: mm

ST-603NA-E2



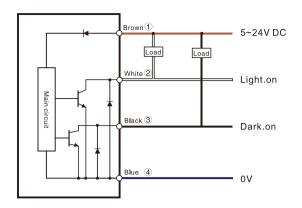
ST-607NA-E2



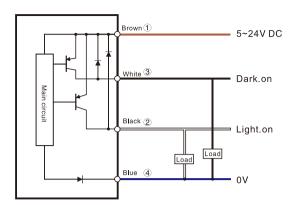
Slot Type

Circuit diagram

NPN



PNP



Fiber Optic

Slot Sensors

Photoelectric

Proximity

Laser

Displacement

Magnetic

Contact Area

Ultrasonic

Vision

Code Readers

Vibration

Temperature

Accessories

Guidance

Slot type sensors
Mirco slot type