

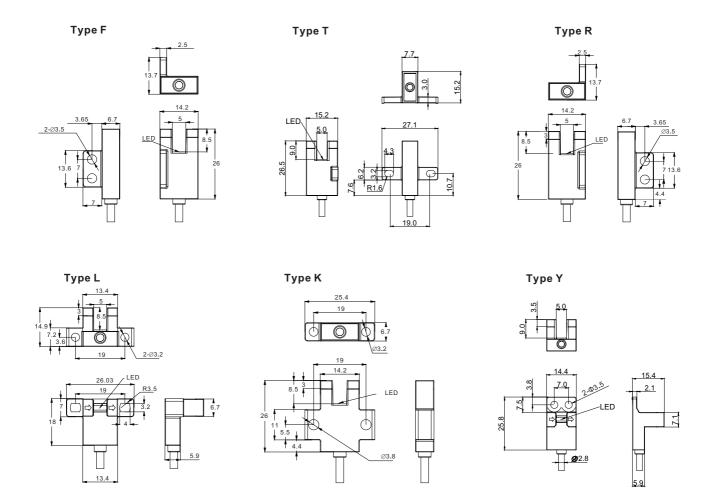
Tank type



Model							
NPN	DSF-302NA-SE	DST-303NA-SE	DSR-304NA-SE	DSL-305NA-SE	DSK-306NA-SE	DSY-307NA-S	
PNP	DSF-302PA-SE	DST-303PA-SE	DSR-304PA-SE	DSL-305PA-SE	DSK-306PA-SE	DSY-307PA-S	
Basic Features							
Working principle		Photoelectric Sensors					
Enclosure style	Type F	Type T	Type R	Type L	Type K	Type Y	
How optics work		Shooting					
Light source		Infrared LED, 940nm					
Slot width		5.0mm					
Groove depth		8.5mm					
Detection		1.2x1.8mm opaque object					
Light		Red LED					
Electrical Data							
Switch mode		Light.on (Light Action) / D.on (shading action) Switchable					
Output mode		NPN or PNP open collector					
Response time		≤0.33ms					
Switching frequency		3KHz					
Repeatability		0.01mm					
Hysteresis (Return/Response)		<0.2mm					
Operating voltage		5~24V DC					
Current consumption		<20mA					
Residual voltage		1.5V or less (load current 100mA, wire length 2m)					
Load current		≤100mA (24VDC)					
Insulation resistance		≥20MΩ (250VDC)					
Resistance		AC, 1000V1 minutes, between all power connection between the terminal and the shell					
Protection circuits		Reverse polarity protection/surge protection					
Environmental Conditions							
Operating ambient temperature		-25~55°C					
Storage temperature		-30~80°C (non-icing)					
Humidity of the working environment		5~85%RH					
Store humidity		5~95%RH (no condensation)					
Ambient illumination		Incandescent lamp ≤ 1000					
Anti-vibration		10~55Hz sweep, 1.5mm amplitude, XYZ 3 directions for 2 hours each					
Ingress protection		IP50					
Mechanical Data							
Connection		2m/4 core cable					
Size	26x14.2x13.7mm	26.5x15.2x27.1mm	26x14.2x13.7mm	26.03x18x14.9mm	26x6.7x25.4mm	25.8x15.4x14.4m	
Material			PC				
Weight	0.025kg	0.026kg	0.025kg 0.026kg 0.025kg				
Fittings				1			

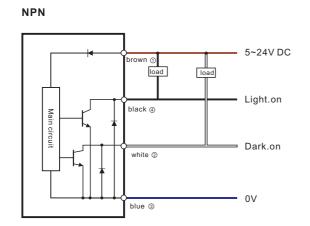


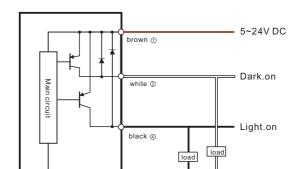
Dimensions



PNP

Wiring Diagran





• 0V