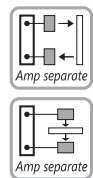
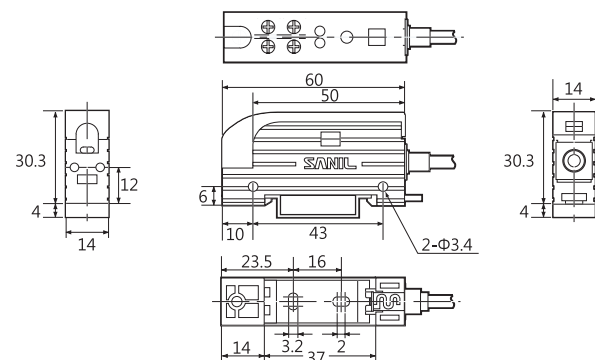


# AMPLIFIER SEPARATED TYPE

## 앰프분리형 Amplifier separated Type



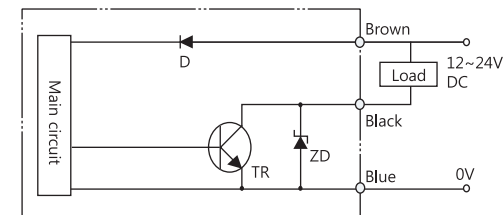
- Surge protection
- Cable 2m(Captyre)



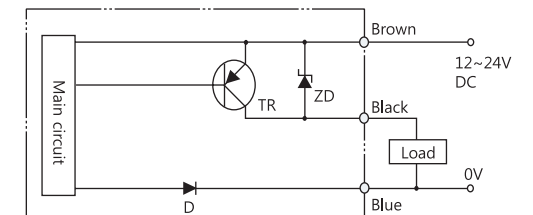
앰프 타입 (Amplifier type)	기본 타입 (Standard)	이주파 타입 (another Frequency)	내노이즈 타입 (Noise resistance)
DC 3 wire 12~24V (Ripple ±10%)	NPN D/O, I/O Adjustable PNP D/O, I/O Adjustable	SB-99 SB-99P	SB-99I -
출력 (Output)	NPN/PNP Transistor open collector, 부하전류(load current) : ≤ 100mA 이하		
소비전류 (Consumption current)	≤ 35mA 이하		
전압 (Control output)	≤ 1.0V 이하 : 부하전류(load current) 100mA일때, <0.4V 이하 : 부하전류(load current) 16mA일때		
응답시간 (Response time)	≤ 0.5ms 이하	≤ 0.5ms 이하	≤ 3ms 이하
출력동작 (Output operation)	입광시 ON/차광시 ON 전환 스위치(Dark ON/Light ON adjustable switch)		
감도조정 (Adjusting)	3회전 연속 가변 볼륨(adjustable volume of 3 turns)		
단락보호 (Short circuit protection)	yes		
전원역접속보호 (Reverse polarity protection)	yes		
타이머기능 (Timer)	40ms off delay 고정 : 투과형 (40ms off delay fixed : through beam type)		
사용주위조도 (Ambient illumination)	동작시(operating) : -10℃~55℃, 보존시(storage) : -20℃~70℃ (단, 결빙, 결로하지 않을것)		
사용주위온도 (Ambient temperature)	35% ~ 85% RH		
내노이즈 (Noise)	전원라인 : 240V/pulse폭 : 0.5μs, 복사 : 300V/pulse폭 : 0.5μs Power line : 240V/pulse width : 0.5μs, Radiation : 300V/pulse width : 0.5μs		
내전압 (Dielectric strength)	1k VAC, 50/60Hz for 1min		
내진동 (Vibration)	1.5mm amplitude at frequency of 10~55 Hz in each of X, Y, Z directions for 2hours		
내충격 (Shock resistance)	100%(10G) X, Y, Z direction for 3times		
절연저항 (Insulation resistance)	≥ 25MΩ 이상 (DC 500V Megger)		
표시등 (Indicator)	동작표시(적색) 입광시 점등 Power (red LED) 안정표시(녹색) 안정 입광시 점등 Stability (green LED)		
케이블 (Cable 2m : PVC)	Φ4 x 3C x 0.2SQ		

## 제어출력 회로도 Control output diagram

### NPN

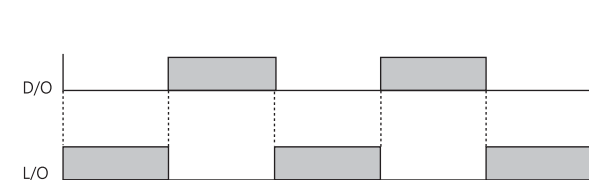


### PNP

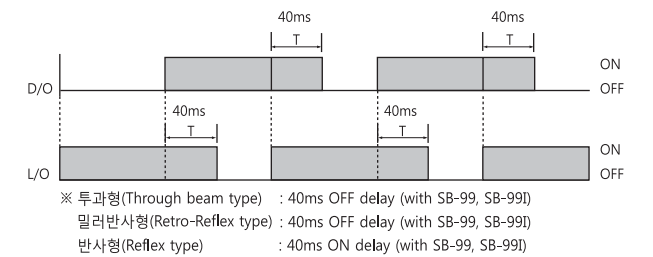


## 동작모드 Operating mode

### 기본동작 Standard operating

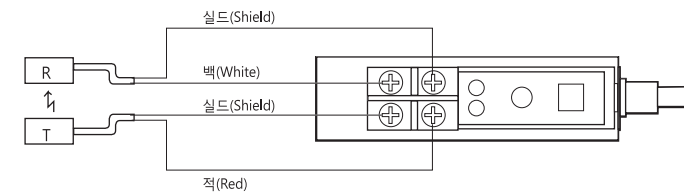


### 타이머동작 Timer operating



## 센서 헤드와의 접속도 Connection with sensor head

### 투과형(Through beam)



### 반사형(Reflex)

