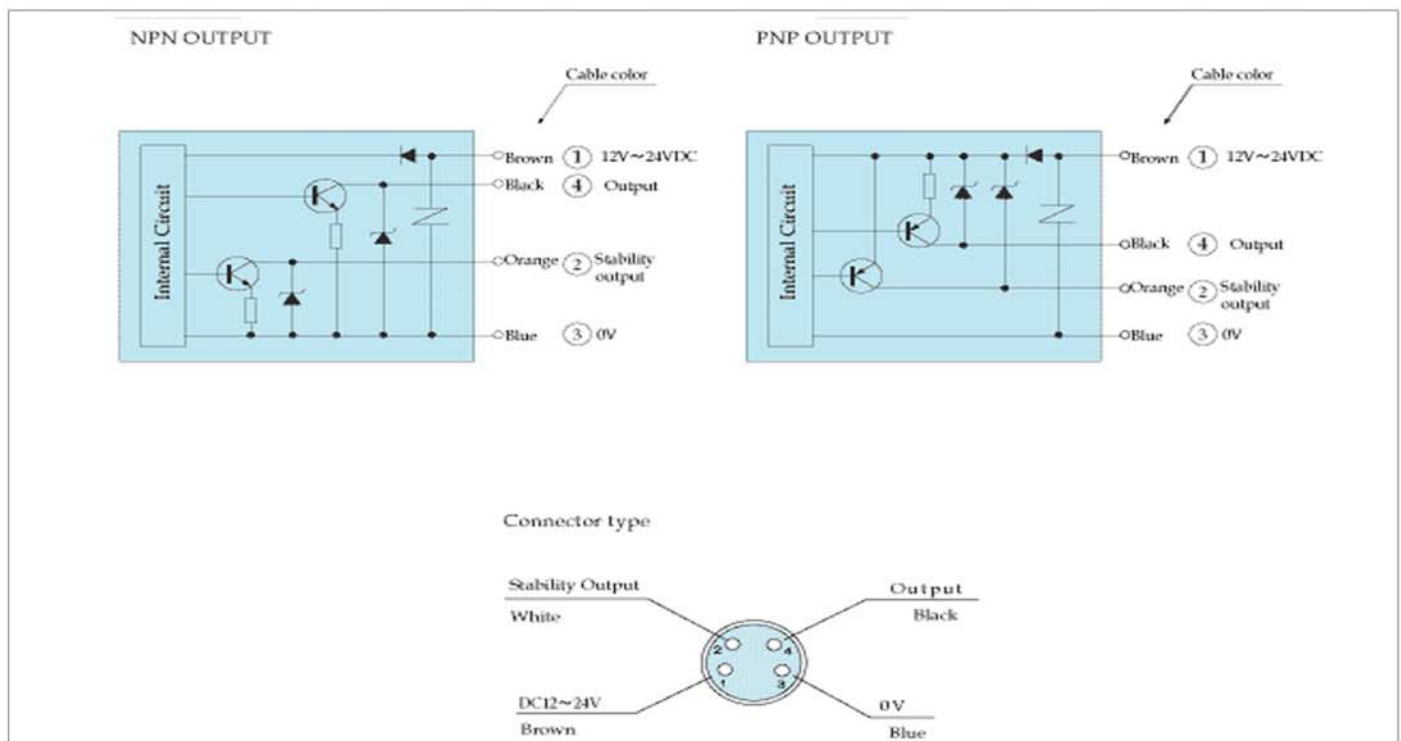


# MIDDLE-G series

- Washable - IP67
- Mirrored objects (mirrors, shiny objects) can be detected (Polarised light reflector type)
- The operation mode is changed by switch
- Sensitivity adjustment allows fine detection
- The product has the stability output. This is useful for globally used PNP type
- Robust protection cover(mounting bracket)is available(option)



## OUTPUT CIRCUITS



## SPECIFICATIONS

		NPN-OUTPUT			PNP-OUTPUT		
Models	Side-on	GT5RSN *1	GMR2RSN	GSR05RSN	GT5RSPNN*3	GMR2RSPNN	GSR05RSPNN
	Basic	GT5RN *2	GMR2RN	GSR05RN	GT5RPNN*4	GMR2RPNN	GSR05RPNN
Detection		Through beam	Polarized Retro-reflection	Diffuse reflection	Through beam Polarized	Retro- reflection	Diffuse reflection
Range(Max.)		7m	0.03~1.5m*	5 50cm	7m	0.03~1.5m*5	50cm
Object resolution		φ20mm(Min.) Opaque object	-	10×10cm White paper	φ20mm(Min.) Opaque object	-	10×10cm White paper
Light Source		Red LED (700nm)					
Power Supply		12 - 24V DC ± 10%, Ripple 10(Max.)					
Current consumption		Trns.: 20mA Rcvr.: 20mA	30mA		Trns.: 20mA Rcvr.: 25mA	35mA	
Operating mode		Light/Dark-ON selectable					
	Control	NPN Open collector Rating: Sink Current 100mA(DC30V)Max.			PNP Open collector Rating: Source Current 100mA(DC30V)Max.		
	Stability	NPN Open collector Rating: Sink Current 50mA(DC30V)Max.			PNP Open collector Rating:Source Current 50mA(DC30V)Max.		
Residual Voltage		1V (MAX.)			2V (MAX.)		
Resource time		0.5 msec(Max)					
Beam deviation		10°(Rcvr)	30°(Reflector)	-	10°(Rcvr)	30°(Reflector)	-
Hysteresis		-		10% (Max.)	-		10% (Max.)
LED Indicator Sensitivity		Trns.: Power (Red) Rcvr.: Operation (Red)Stability (Green)	Operation (Red) Stability (Green)		Trns.: Power (Red) Rcvr.: Operation (Red)Stability (Green)	Operation (Red) Stability (Green)	
Sensitivity adjustment (SENS)		Built-in potentiometer					
Connection		Flying lead (φ4) 2m					
Weight(Max.)		Trns.:80g Rcvr.:80g	80g		Trns.:80g Rcvr.:80g	80g	

