

Middle-G

Rating/Performance/Specification

Rating/performance	Model	Side-on	GT5RSN	GMR2RSN	GSR05RSN	GSZ5RS
		Head-on	GT5RN	GMR2RN	GSR05RN	GSZ5R
	Detection method		Through-beam type	Polarization reflector type	Diffuse-reflective type	Limited reflection type
	Detecting distance		7m	0.03 - 1.5m*	500mm	20 - 50mm
	Detection object		φ 20mm (Min.) Opaque	Glossy objects including mirror-like materials and stainless-steel plates or opaque objects	Standard detection object: 100 x 100mm white drawing paper	_____
	Power supply		12 - 24V DC ±10% / Ripple 10% max. (*15 V power supply)			
	Current consumption		Transmitter: 20 mA max. Receiver: 20 mA max.	30mA max.		
	Output mode	Control output	NPN open collector output Rating: sink current 100 mA (30 V DC) max. (PNP output type also available)			
		Stability output	NPN open collector output Rating: sink current 50 mA (30 V DC) max. (PNP output type also available)			
	Operation mode		Light-ON/Dark-ON selectable (with switch)			
Response time		0.5ms max.				
Hysteresis		_____		10% max.		
Operating angle		10° (at receiver)	30° (reflector)	_____		
Specification	Light source (light wavelength)		Red LED (700nm)			
	Indicator		Transmitter: power indicator (red LED) Receiver: operation indicator (red LED) Stability indicator (green LED)	Operation indicator (red LED) Stability indicator (green LED)		
	Volume		SENS: sensitivity adjustment (on receiver for through-beam type)			
	Switch		Light-ON/Dark-ON selector switch provided			
	Short circuit protection		Provided (for control output only)			Provided
	Material	Case	Polyarylate			
		Lens	Acrylic			
	Connection		Permanently attached cord (outer dimension: dia. 4.2) Transmitter of through-beam type: 0.3 sq. 2 core 2 m length(gray) Receiver of through-beam type: 0.2 sq. 4 core 2 m (black)			
	Mass		About 80 g (transmitter/receiver)	About 80g		
	Notes			K-71 reflector provided		
			Screwdriver for sensitivity adjustment provided			
*1 Contact Takex for 5 VDC power supply models available for head-on types. ● All models are provided with a mounting bracket. Polarization reflector types are provided with a bracket for reflector and adhesive sheet for mounting the reflector.						

Environmental Specification

Environment	Ambient light	5,000 lx max.
	Ambient temperature	-25 - +55°C (non-freezing)
	Ambient humidity	35~85%RH (non-condensing)
	Protective structure	IP67
	Vibration	10-55 Hz / 1.5 mm amplitude / 2 hours each in 3 direction
	Shock	500 m/s ² / 3 times each in 3 directions
	Dielectric withstanding	1,000 VAC for 1 minute
	Insulation resistance	500 VDC, 20 MΩ or higher

*Detecting distances for different reflectors

- The detecting distance depends on the reflector used.

Reflector model	K-71	K-7	S-25
Detecting distance	0.03 - 1.5m	0.03 - 2.5m	70 - 400mm