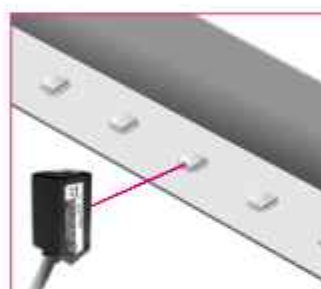
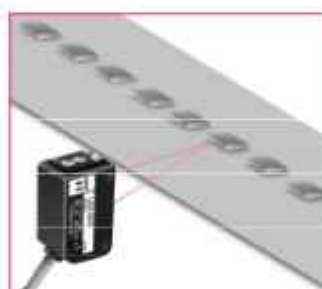
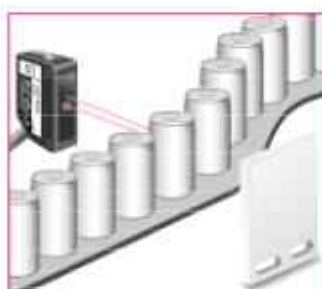

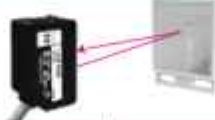






Long distance! Visible laser beam with small spot!
4 kinds of sensor are line-up



Kinds	Through-beam		Retro-reflection		Diffuse-reflection		BGS function	
Appearance								
Model No.	LEX-305C	LEX-305A	LEX-103C	LEX-103A	LEX-031C	LEX-031A	LEX-107C	LEX-307C
Power source	12 to 24VDC (10 to 30V including ripple 10%)							
Current consumption	Projector/receiver:15mA or less		20mA or less				30mA or less	
Light source	Visible red semiconductor laser 650nm							
Laser class	JIS/IEC class1		JIS/IEC class2				JIS/IEC class1	
Max.power	390 μ W		3mW				4.7mW	
Laser life	Approx.50,000 hours (50℃)							
Detecting distance	30m		0.1 to 10m*1		300mm*2		5 to 100mm*2	10 to 300mm*2
Spot diameter*3	Approx. ϕ 30mm (at 30m)		Approx. ϕ 12mm (at 10m)		Approx. ϕ 1.5mm (at 300mm)		Approx. ϕ 1mm (at 100mm)	Approx. ϕ 1.5mm (at 300mm)
Hysteresis					20% or less		3% or less*2	5% or less*2
Operating mode	Changeover switch (L: Light-ON, D: Dark-ON)							
Output	NPN	PNP	NPN	PNP	NPN	PNP	NPN	
Control output	100mA or less for NPN/PNP open-collector output, 30VDC or less, residual voltage 1.8V							
Response time	0.25msec or less							
Sensitivity adjuster	Provided (not provided to projector of through-beam type)							
Indication lamps	Laser emission lamp (stable lamp only for receiver of through-beam type): Green LED,output lamp: orange LED							
Connection	Cable: ϕ 3.8mm, 2m long, 3 cores (projector of through-beam type: 2 cores,BGS type: 4 cores)							
Ambient illuminance	Incandescent lamp: 3,000lux or less, sun light: 10,000lux or less							

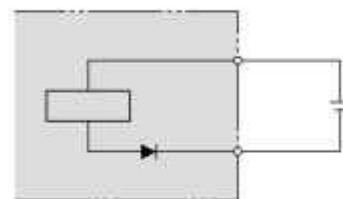
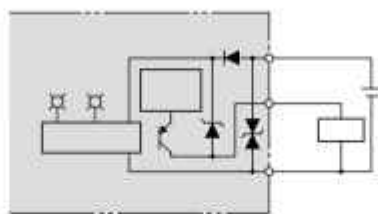
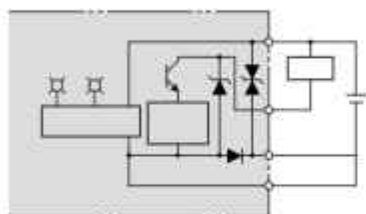
Ambient temperature/humidity	-10 to +50°C (-25 to +70°C at stored)*4, 35 to 85%RH (35 to 95% at stored) Not icing, not condensing		
Insulation resistance	20M Ω (500VDC) or more		
Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, each 2 hour in X, Y and Z directions		
Impact resistance	500m/s ² , each 3 time in X, Y and Z directions		
Withstand voltage	1,000VAC/min.		
Protective structure	IP67 (IEC standard)		
Case materials	Case:ABS resin, lens (front cover): PMMA resin		
Weight (including cable)	Projector: approx.45g Receiver: approx.50g	Approx. 50g	
Accessory	Fitting screw, fitting metal	Fitting screw, fitting metal, reflector	Fitting screw, fitting metal

*1. Combination of attached reflector.

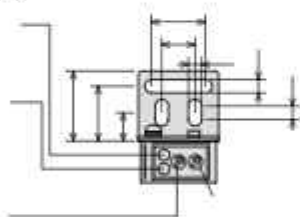
*2. Detectable object is white paper with 100X100.

*3. This is defined by 1/e² (13.5%) of center strength.

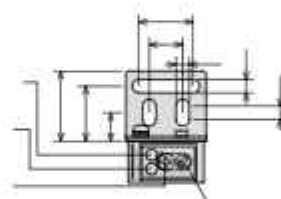
*4. In case of BGS function type, -10 to +55°C (-40 to +70°C at stored).



LEX-305 103 031



LEX-107 307



RRL 51S RRL002
Attached to LEX-103

