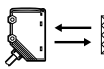
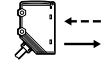


Ordering Information

Sensors

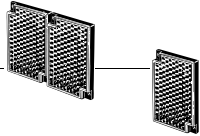
 Red light
  Infrared light

Sensor type	Shape	Connection method	Sensing distance	Timer function	Model	
					NPN/PNP selector	Relay contact output
Retroreflective Models (with M.S.R. Function)		Pre-wired	 10m [500mm]*	---	E3G-R13-G	---
		Connector type			E3G-R17-G	
		Terminal block		ON or OFF delay 0 to 5 s (adjustable)	---	E3G-MR19-G
						E3G-MR19T-G
Distance-setting		Pre-wired	 White paper 300 × 300 mm 0.2 to 2 m	---	E3G-L73	---
		Connector type			E3G-L77	
		Terminal block		ON or OFF delay 0 to 5 s (adjustable)	---	E3G-ML79-G
						E3G-ML79T-G

* Values in parentheses indicate the minimum required distance between the sensor and reflector.

Accessories (Order Separately)

Reflectors

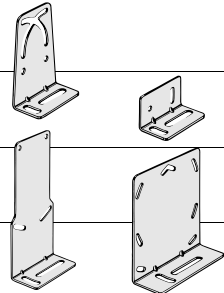
Shape	Sensing distance (typical)	Model	Quantity	Remarks
	10 m (500 mm) *	E39-R2	1	---
	6 m (100 mm) *	E39-R1S	1	---

* Values in parentheses indicate the minimum required distance between the sensor and reflector.

Terminal Protection Cover for Side-pullout Cable

Shape	Model	Quantity	Applicable type	Remarks
	E39-L129-G	1	E3G-MR19(T)-G E3G-ML79(T)-G	Provided with rubber bushing and cap for pullout prevention in horizontal direction

Mounting Brackets

Shape	Model	Quantity	Applicable type	Remarks
	E39-L131	1	E3G-R1□ E3G-L7□	---
	E39-L132	1		Rear-mounting use
	E39-L135	1	E3G-MR19(T)-G E3G-ML79(T)-G	Cable pulled out downwards
	E39-L136	1		---

Sensor I/O Connectors

Cable	Shape	Cable length		Model
Standard cable	Straight 	2 m	3-wire type	XS2F-D421-DC0-A
		5 m		XS2F-D421-GC0-A
	L-shaped 	2 m		XS2F-D422-DC0-A
		5 m		XS2F-D422-GC0-A

Rating/Performance

Sensor type		Retroreflective Models (M.S.R. function)				Distance-setting			
Item	Model	E3G-R13-G	E3G-R17-G	E3G-MR19-G	E3G-MR19T-G	E3G-L73	E3G-L77	E3G-ML79-G	E3G-ML79T-G
Sensing distance		10 m (500 mm) * (When using the E39-R2)				0.2 to 2 m (White paper 300 x 300 mm)			
Setting distance		---				0.5 to 1.2 m (White paper 300 x 300 mm)			
Standard sensing object		Opaque: 80 dia. min.				---			
Hysteresis (typical)		---				10% of setting distance			
Directional angle		Sensor: 1° to 5°				---			
Reflectivity characteristics (black/white error)		---				±10% max. (At detection distance of 1m)			
Light source (wave length)		Red LED (700 nm)				Infrared LED (860 nm)			
Spot size		---				70 mm dia. max. (At detection distance of 1m)			
Power supply voltage		10 to 30 VDC [Ripple (p-p) 10% included]		12 to 240 VDC ±10% ripple (p-p) : 10% max. 24 to 240 VAC ±10% 50/60 Hz		10 to 30 VDC (Ripple (p-p) 10% included)		12 to 240 VDC ±10% ripple (p-p) : 10% max. 24 to 240 VAC ±10% 50/60 Hz	
Current/Power consumption		50 mA max.		2 W max.		60 mA max.		2 W max.	
Control output		Load supply voltage 30 VDC max., load current 100 mA max. (residual voltage NPN output: 1.2 V max., PNP output: 2 V max.) Open collector output type (NPN/PNP output switch selectable) L-ON/ D-ON switch selectable		Relay output: Switch-over contact 250 VAC 3A (cos =1) max. 30 VDC 3A max. L-ON/D-ON switch selectable		Load supply voltage 30 VDC max., load current 100 mA max. (residual voltage NPN output: 1.2 V max., PNP output: 2 V max.) Open collector output type (NPN/PNP output switch selectable) L-ON/ D-ON switch selectable		Relay output: Switch-over contact 250 VAC 3A (cos =1) max. 30 VDC 3A max. L-ON/D-ON switch selectable	
Life expectancy (relay output)	Me- chani- cal	---		50,000,000 operations min. (switching frequency: 18,000 operations/h)		---		50,000,000 operations min. (switching frequency: 18,000 operations/h)	
	Electri- cal	---		100,000 operations min. (switching frequency: 1,800 operations/h)		---		100,000 operations min. (switching frequency: 1,800 operations/h)	
Protective circuits		Reverse polarity protection, output short-circuit protection, mutual interference prevention		Mutual interference prevention function		Reverse polarity protection, output short-circuit protection, mutual interference prevention		Mutual interference prevention function	
Response time		Operation/reset: 1 ms each		Operation/reset: 30 ms each		Operation/reset: 5 ms each		Operation/reset: 30 ms each	
Sensitivity adjustment		One-turn adjuster				Teaching method (NORMAL mode/ZONE mode)			
Timer function		---			ON delay/ OFF delay 0 to 5 s (Adjuster variable system)	---			ON delay/ OFF delay 0 to 5 s (Adjuster variable system)
Ambient illuminance		Incandescent lamp: 3,000 lux max. Sunlight 10,000 lux max.							
Ambient temperature		Operating: -25°C to 55°C, Storage: -30°C to 70°C (with no icing or condensation)							
Ambient humidity		Operating: 35% to 85%RH, Storage: 35% to 95%RH (with no condensation)							
Insulation resistance		20 M min. at 500 VDC							
Dielectric strength		1,000 VAC at 50/60 Hz for 1 minute		2,000 VAC at 50/60 Hz for 1 minute		1,000 VAC at 50/60 Hz for 1 minute		2,000 VAC at 50/60 Hz for 1 minute	
Vibration resistance		Destruction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions							

* Values in parentheses indicate the minimum required distance between the sensor and reflector.