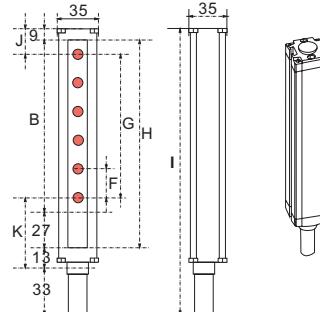


**Features**

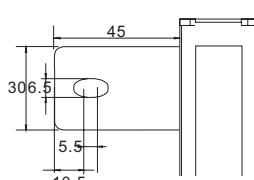
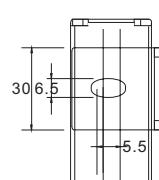
- Up to 500 Beam channels
- Less than 10 mm Beam pitch
- 60 ... 5000mm Sensing height
- 1 ... 30m Sensing Range
- Built-in electric protection
- 15°C ... +65°C operating temperature
- Cable version
- M12 connector version
- IP66 protection



B: Beam plate length
 F: Beam pitch
 H: Panel height
 L: Beam channel number
 Protection Height G=(L-1)xF mm
 Overall Height I=LxF+81mm
 Upper Blind Height J=F/2+8mm
 Lower Blind Height K=F/2+40mm

(Unit: mm)

**Specifications**

Beam pitch		20mm							
Beam channels		4	6	8	10	12	14	16	...
Sensing height		60mm	100mm	140mm	180mm	220mm	260mm	300mm	...
Cable version	Emitter	EA0420K03ALA	EA0620K03ALA	EA0820K03ALA	EA1020K03ALA	EA1220K03ALA	EA1420K03ALA	EA1620K03ALA	...
	NPN-NO	EA0420C03ALA	EA0620C03ALA	EA0820C03ALA	EA1020C03ALA	EA1220C03ALA	EA1420C03ALA	EA1620C03ALA	...
	NPN-NC	EA0420D03ALA	EA0620D03ALA	EA0820D03ALA	EA1020D03ALA	EA1220D03ALA	EA1420D03ALA	EA1620D03ALA	...
	Receiver	EA0420A03ALA	EA0620A03ALA	EA0820A03ALA	EA1020A03ALA	EA1220A03ALA	EA1420A03ALA	EA1620A03ALA	...
	PNP-NO	EA0420B03ALA	EA0620B03ALA	EA0820B03ALA	EA1020B03ALA	EA1220B03ALA	EA1420B03ALA	EA1620B03ALA	...
	PNP-NC	EA0420Y03ALA	EA0620Y03ALA	EA0820Y03ALA	EA1020Y03ALA	EA1220Y03ALA	EA1420Y03ALA	EA1620Y03ALA	...
M12 connector	Emitter	EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	...
	NPN-NO	EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	...
	NPN-NC	EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	...
	Receiver	EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	...
	PNP-NO	EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	...
	PNP-NC	EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	...
Beam pitch		1mm,2mm,5mm,10mm,15mm,20mm,30mm,40mm,60mm							
Sensing range		10m Standard(1 ... 30m customized sensing range)							
Sensing object		Φ15mm or more opaque object(<15mm sensing object can also be customized)							
Supply voltage		12 to 24V DC ±10% Ripple p-p 10% or less							
Sensing mode		Through beam							
Synchronous mode		Optical Signal Synchronous or Cable Line Synchronous							
Output	NPN	NPN open-collector transistor, Max. Load current:100mA; Voltage Drop: <1.5V							
	PNP	PNP open-collector transistor, Max. load current:100mA; Voltage Drop: <1.5V							
	Relay	Relay SPDT, 5A/250VAC, 5A/30VDC							
Output operation		ON when all beams are received, OFF when one or more beams are interrupted.							
Short-circuit protection		Built-in							
Response time		10ms or less							
Indicator	Emitter	Power indicator: green LEDX2(light up when the power is ON; If emitter is off that is indicated by the number of LEDs lighting up)							
	Receiver	Operation indicator: Red LED(lights up when one or more beams are interrupted), Stable indicator: Green LED(lights up when all beams are stable received)							
Protection		IP66							
Interference prevention function		Incorporated							
Ambient temperature		-15°C ... +65°C							
Ambient humidity		35 to 85% RH							
Ambient illuminance		Sunlight: 10,000Lx at the light-receiving face, Incandescent light: 3,000x at the light-receiving face							
EMC immunity		RFI>10V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact)							
Voltage withstand ability		1,000 V AC for one min. between all supply terminals connected together and enclosure							
Insulation resistance		>100 MΩ							
Vibration resistance		10 to 150 Hz frequency, 0.75 mm 0.030 in amplitude in X, Y and Z directions for two hours each							
Shock resistance		490m/s2, acceleration(50G approx) in X, Y and Z directions for three times each							
Emitting		Infrared LED							
Material		Aluminum Enclosure, Polyester lens							
Connection		2m PVC Cable / M12 Connector							
Weight (g)		Approx. 240g ... 570g							
Mounting brackets		 							

(Unit: mm)