



Features

- Up to 500 Beam channels
- Less than 5 mm Beam pitch
- Up to 4000mm Sensing height
- 1 ... 5m Sensing Range
- Built-in electric protection
- 15°C ... +65°C operating temperature
- Cable version
- M12 connector version
- IP69K protection

CE

B: Upper blank
 F: Center distance of mounting hole
 H: Beam pitch
 H: Panel height
 K: Beam channel number

Protection Height $C = (K-1) \times H \text{ mm}$
 Overall Height $G = C + H/2 + 104 \text{ mm}$
 Upper Blind Height $I = H/2 + 38 \text{ mm}$
 Lower Blind Height $J = 66 \text{ mm}$

(Unit: mm)

Specifications

Beam pitch	10mm										
Beam channels	4	6	8	10	12	14	16	...			
Sensing height	60mm	100mm	140mm	180mm	220mm	260mm	300mm	...			
Cable version	Emitter	ED0410K03ALA ED0610K03ALA ED0810K03ALA ED1010K03ALA ED1210K03ALA ED1410K03ALA ED1610K03ALA ...									
		Receiver	NPN-NO	ED0410C03ALA ED0610C03ALA ED0810C03ALA ED1010C03ALA ED1210C03ALA ED1410C03ALA ED1610C03ALA ...							
			NPN-NC	ED0410D03ALA ED0610D03ALA ED0810D03ALA ED1010D03ALA ED1210D03ALA ED1410D03ALA ED1610D03ALA ...							
			PNP-NO	ED0410A03ALA ED0610A03ALA ED0810A03ALA ED1010A03ALA ED1210A03ALA ED1410A03ALA ED1610A03ALA ...							
			PNP-NC	ED0410B03ALA ED0610B03ALA ED0810B03ALA ED1010B03ALA ED1210B03ALA ED1410B03ALA ED1610B03ALA ...							
Relay SPDT	ED0410Y03ALA ED0610Y03ALA ED0810Y03ALA ED1010Y03ALA ED1210Y03ALA ED1410Y03ALA ED1610Y03ALA ...										
M12 connector	Emitter	ED0410K03HLA ED0610K03HLA ED0810K03HLA ED1010K03HLA ED1210K03HLA ED1410K03HLA ED1610K03HLA ...									
		Receiver	NPN-NO	ED0410K03HLA ED0610K03HLA ED0810K03HLA ED1010K03HLA ED1210K03HLA ED1410K03HLA ED1610K03HLA ...							
			NPN-NC	ED0410K03HLA ED0610K03HLA ED0810K03HLA ED1010K03HLA ED1210K03HLA ED1410K03HLA ED1610K03HLA ...							
			PNP-NO	ED0410K03HLA ED0610K03HLA ED0810K03HLA ED1010K03HLA ED1210K03HLA ED1410K03HLA ED1610K03HLA ...							
			PNP-NC	ED0410K03HLA ED0610K03HLA ED0810K03HLA ED1010K03HLA ED1210K03HLA ED1410K03HLA ED1610K03HLA ...							
Beam pitch	1mm,2mm,5mm,10mm,15mm,20mm,30mm,40mm,60mm										
Sensing range	3m Standard(1 ... 5m 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	IP69K										
Interference prevention function	Incorporated										
Ambient temperature	-15°C ... +65°C										
Ambient humidity	35 to 85% RH										
Ambient illuminance	Sunlight: 10,000L x at the light -receiving face, Incandescent light: 3,000 x 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/s ² , 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
 Mounting brackets

(Unit: mm)