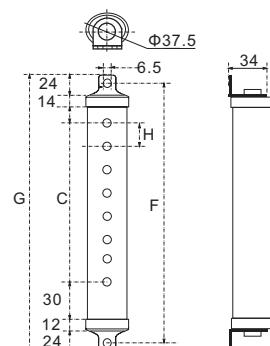


**Features**

- 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

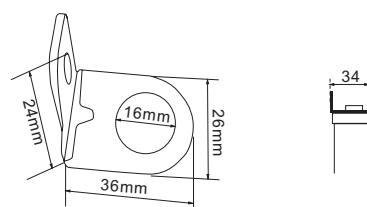


B: Upper blank
F: Center distance of mounting hole
H: Beam pitch
I: Panel height
K: Beam channel number
Protection Height $C = (K-1)H$ mm
Overall Height $G = C+H/2+104$ mm
Upper Blind Height $I = H/2+38$ mm
Lower Blind Height $J = 66$ mm

(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	...
	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	...
	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	...
	Relay	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: 10,000Lx 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/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									



(Unit: mm)