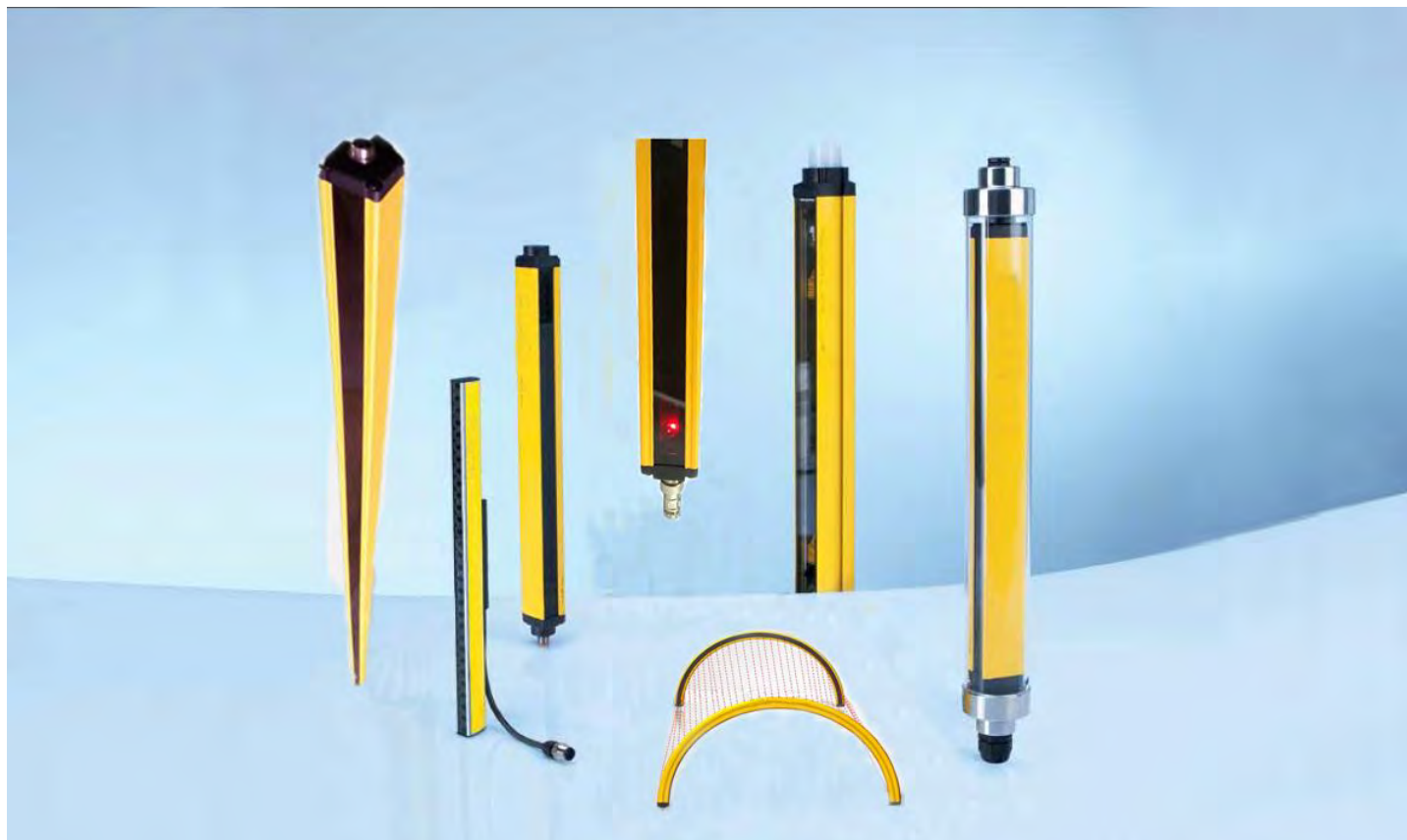
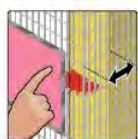


SAFETY LIGHT CURTAIN



Safety light curtains, multiple and signal-beam photoelectric safety switches from SENSONG are ideal for the following safety tasks:

Hazardous point protection



Finger and hand detection
Detects a human finger when workers operate very close to the hazardous point of the machine.



Hand and person detection
Detects hands and prevents start-up while a person is in the hazardous area

Access protection



Single-sided access protection
Approaching persons are detected by identifying the person's body



With differentiation between person and material
Approaching persons are detected by identifying a human body. A distinction is made between humans and material.



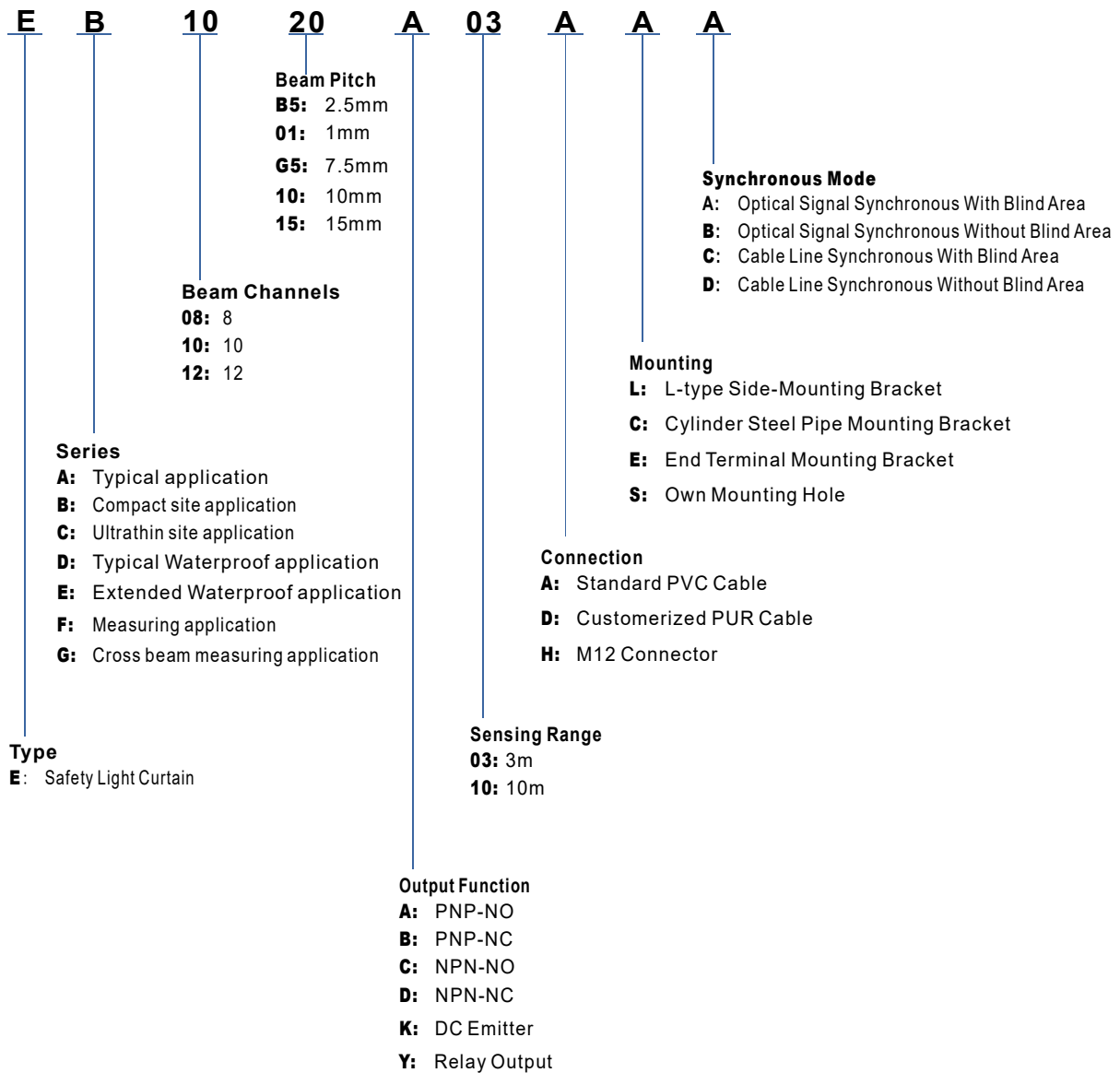
Multi-sided access protection
Approaching persons are detected by identifying the person's body

Hazardous area protection



Person detection
Approaching and present persons are detected by identifying legs in the scanning range

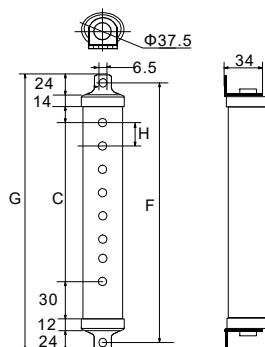
SELECTION GUIDE FOR SAFETY LIGHT CURTAIN





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



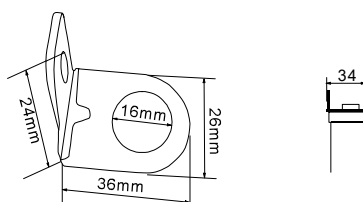
B: Upper blank
F: Center distance of mounting hole
H: Beam pitch
H: Panel height
K: Beam channel number
Protection Height $C = (K-1) \times H \text{ mm}$
Overall Height $G = C + H/2 + 104 \text{ mm}$
Upper Blind Height $I = H/2 + 38 \text{ mm}$
Lower Blind Height $J = 66 \text{ mm}$

(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		ED0410K03AEA	ED0610K03AEA	ED0810K03AEA	ED1010K03AEA	ED1210K03AEA	ED1410K03AEA	ED1610K03AEA	...
	Receiver	NPN-NO	ED0410C03AEA	ED0610C03AEA	ED0810C03AEA	ED1010C03AEA	ED1210C03AEA	ED1410C03AEA	ED1610C03AEA	...
		NPN-NC	ED0410D03AEA	ED0610D03AEA	ED0810D03AEA	ED1010D03AEA	ED1210D03AEA	ED1410D03AEA	ED1610D03AEA	...
		PNP-NO	ED0410A03AEA	ED0610A03AEA	ED0810A03AEA	ED1010A03AEA	ED1210A03AEA	ED1410A03AEA	ED1610A03AEA	...
		PNP-NC	ED0410B03AEA	ED0610B03AEA	ED0810B03AEA	ED1010B03AEA	ED1210B03AEA	ED1410B03AEA	ED1610B03AEA	...
		Relay SPDT	ED0410Y03AEA	ED0610Y03AEA	ED0810Y03AEA	ED1010Y03AEA	ED1210Y03AEA	ED1410Y03AEA	ED1610Y03AEA	...
M12 connector	Emitter		ED0410K03HEA	ED0610K03HEA	ED0810K03HEA	ED1010K03HEA	ED1210K03HEA	ED1410K03HEA	ED1610K03HEA	...
	Receiver	NPN-NO	ED0410C03HEA	ED0610C03HEA	ED0810C03HEA	ED1010C03HEA	ED1210C03HEA	ED1410C03HEA	ED1610C03HEA	...
		NPN-NC	ED0410D03HEA	ED0610D03HEA	ED0810D03HEA	ED1010D03HEA	ED1210D03HEA	ED1410D03HEA	ED1610D03HEA	...
		PNP-NO	ED0410A03HEA	ED0610A03HEA	ED0810A03HEA	ED1010A03HEA	ED1210A03HEA	ED1410A03HEA	ED1610A03HEA	...
		PNP-NC	ED0410B03HEA	ED0610B03HEA	ED0810B03HEA	ED1010B03HEA	ED1210B03HEA	ED1410B03HEA	ED1610B03HEA	...
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℃ ... +65℃							
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/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							

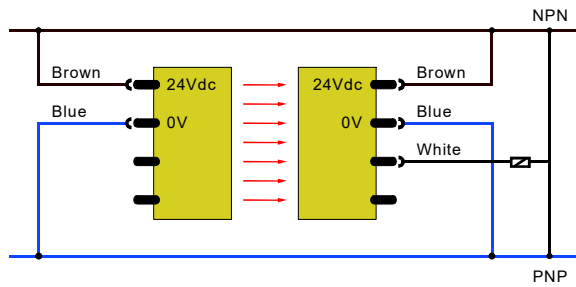
Mounting brackets



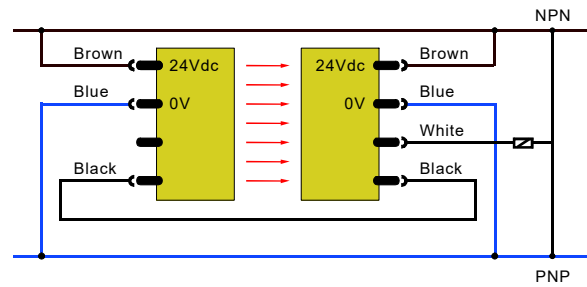
(Unit: mm)

WIRING DIAGRAM FOR SAFETY LIGHT CURTAIN

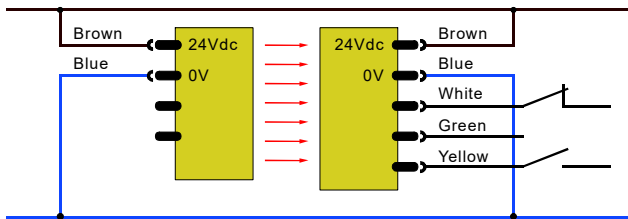
Optical Signal Synchronous



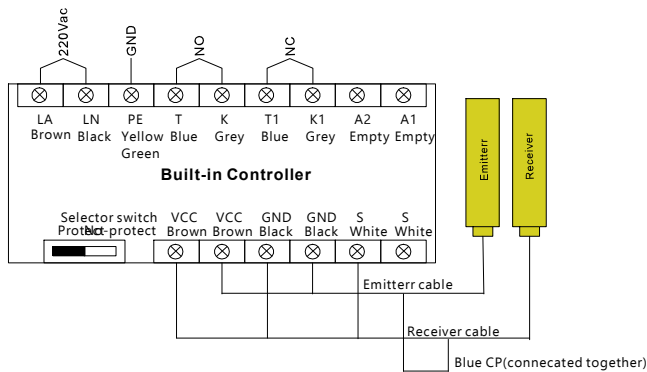
Cable Line Synchronous



Relay Output



Built-in Controller Wiring



External Controller Wiring

