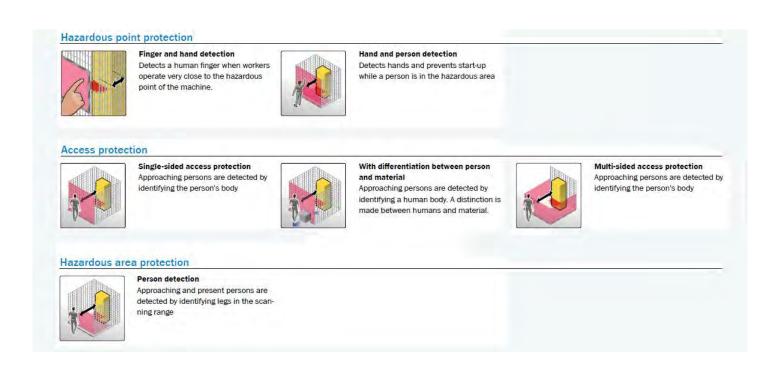


SAFETY LIGHT CURTAIN

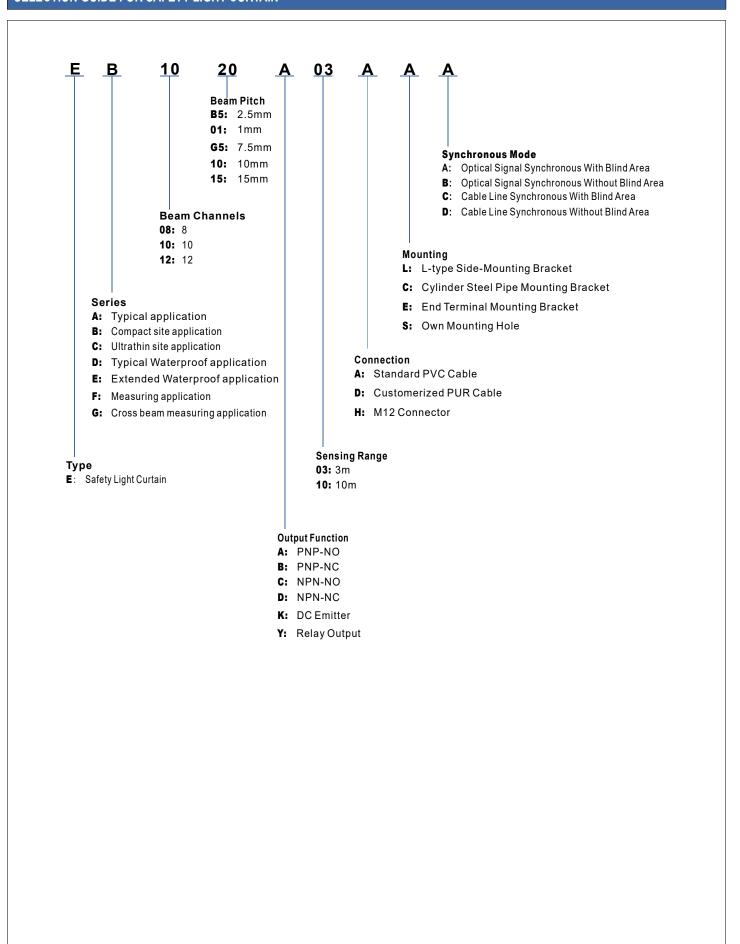


Safety light curtains, multiple and signal-beam photoelectric safety switches from SENSONG are ideal for the following safety tasks:





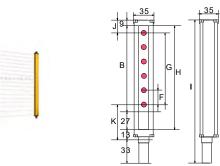
SELECTION GUIDE FOR SAFETY LIGHT CURTAIN

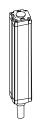




Features

- 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

 $\begin{array}{ll} \mbox{Protection Height} & \mbox{G= (L-1)xF mm} \\ \mbox{Overall Height} & \mbox{I= LxF+81mm} \\ \mbox{Upper Blind Height} & \mbox{J=F/2+8mm} \\ \end{array}$ Lower Blind Height K=F/2+40mm

		(€			<u>+ </u>				(U	nit: mm)
Specific	ations									
Beam pite	ch					20mm				
Beam cha	annels		4	6	8	10	12	14	16	
Sensing height		60mm	100mm	140mm	180mm	220mm	260mm	300mm		
	Emitter		EA0420K03ALA	EA0620K03ALA	EA0820K03ALA	EA1020K03ALA	EA1220K03ALA	EA1420K03ALA	EA1620K03ALA	
Cable version	Receiver	NPN-NO	EA0420C03ALA	EA0620C03ALA	EA0820C03ALA	EA1020C03ALA	EA1220C03ALA	EA1420C03ALA	EA1620C03ALA	
		NPN-NC	EA0420D03ALA	EA0620D03ALA	EA0820D03ALA	EA1020D03ALA	EA1220D03ALA	EA1420D03ALA	EA1620D03ALA	
		PNP-NO	EA0420A03ALA	EA0620A03ALA	EA0820A03ALA	EA1020A03ALA	EA1220A03ALA	EA1420A03ALA	EA1620A03ALA	
		PNP-NC	EA0420B03ALA	EA0620B03ALA	EA0820B03ALA	EA1020B03ALA	EA1220B03ALA	EA1420B03ALA	EA1620B03ALA	
		Relay SPDT	EA0420Y03ALA	EA0620Y03ALA	EA0820Y03ALA	EA1020Y03ALA	EA1220Y03ALA	EA1420Y03ALA	EA1620Y03ALA	
M12 connector	Emitter		EA0420K03HLA	EA0620K03HLA	EA0820K03HLA	EA1020K03HLA	EA1220K03HLA	EA1420K03HLA	EA1620K03HLA	
	Receiver	NPN-NO	EA0420C03HLA	EA0620C03HLA	EA0820C03HLA	EA1020C03HLA	EA1220C03HLA	EA1420C03HLA	EA1620C03HLA	
		NPN-NC	EA0420D03HLA	EA0620D03HLA	EA0820D03HLA	EA1020D03HLA	EA1220D03HLA	EA1420D03HLA	EA1620D03HLA	
		PNP-NO	EA0420A03HLA	EA0620A03HLA	EA0820A03HLA	EA1020A03HLA	EA1220A03HLA	EA1420A03HLA	EA1620A03HLA	
		PNP-NC	EA0420B03HLA	EA0620B03HLA	EA0820B03HLA	EA1020B03HLA	EA1220B03HLA	EA1420B03HLA	EA1620B03HLA	
Beam nitr	ch	T INI -INO	LAO420BOSHEA	LAGOZOBOSITEA		m,10mm,15mm,20r			LATOZOBOSTILA	
Beam pitch			10m Standard(1 30m customized sensing range)							
Sensing range										
Sensing object Supply voltage			Φ15mm or more opaque object(<15mm sensing object can also be customized)							
			12 to 24V DC ±10% Ripple p-p 10% or less							
Sensing mode Synchronous mode			Through beam							
Synchron	lous mode		Optical Signal Synchronous or Cable Line Synchronous							
		NPN	NPN open-collector transistor, Max. Load current:100mA; Voltage Drop: <1.5V							
Output		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 Example 1							
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	n					IP66				
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/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			306.5							
									(U	nit: mm)

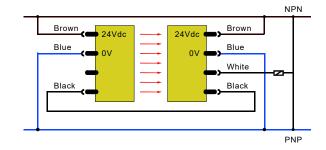


WIRING DIAGRAM FOR SAFETY LIGHT CURTAIN

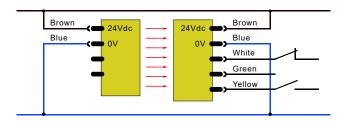
Optical Signal Synchronous

Brown Blue OV Blue White PNP

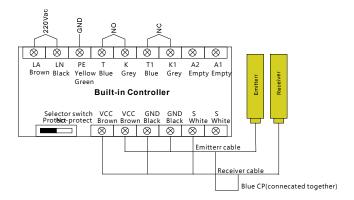
Cable Line Synchronous



Relay Output



Built-in Controller Wiring



External Controller Wiring

