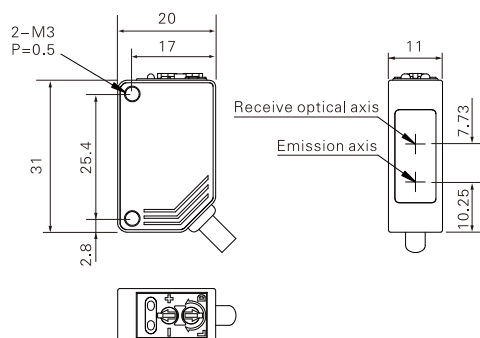


Appearance				
Sensing type	Disffuse refection–BGS			
Sensing distance	5 ~ 100mm(White non–glossy paper)	5mm ~ 150mm(White non–glossy paper)	0 ~ 300mm (White non–glossy paper)	
Setting distance	30 ~ 100mm	40 ~ 150mm	40 ~ 300mm	
Spot size	≈ Ø1.5mm/10cm	≈ Ø9mm/15cm	≈ Ø16mm/30cm	
Hysteresis	≦5%	≦20%	≦5%	
Output type	NPN/PNP Open–collector, ≦100mA/30V DC			
Switch type	L.on/D.on selectable			
Indicator	Operation indicator: Green Motion indicator: Red			
Response time	≦2ms	5ms	≦2ms	
Sensitivity adjustment	Adjuster(6 turns)	Adjuster (single turns)	Adjuster(6 turns)	
Light source	Red LED small spot 623nm (modulation)	Red LED 623nm (modulation)		
Operating voltage	10~30V DC ± 10%	10~24V DC ± 10%	10~30V DC ± 10%	
Current consumption	<20mA		<25mA	
Load current	<100mA			
Ambient illuminance	Sunlight≦5,000Lux,Incandescent lamp≦3,000Lux			
Ambient temperature	–25℃~55℃ no freezing			
Ambient humidity	35~85% RH, No condensation			
Degree of protection	IP65			
Connection method	2M/3 core cable			
Material	PBT+fiberglass(body); PMMA(Lens)			
Accessories	Screwdriver			
Model No.	NPN	ESB-S10N	ESB-15N	ESB-30N
	PNP	ESB-S10P	ESB-15P	ESB-30P

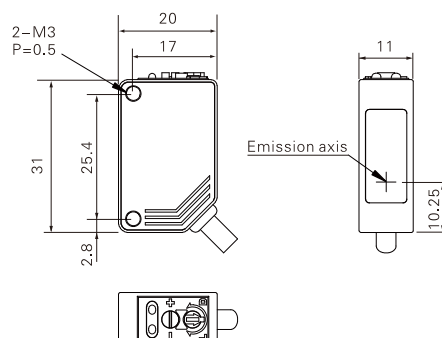
Dimensions

Unit: mm

ESB-S10/15N(P)

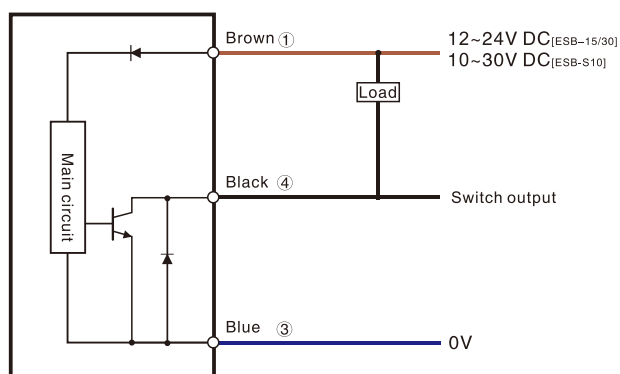


ESB-30N(P)

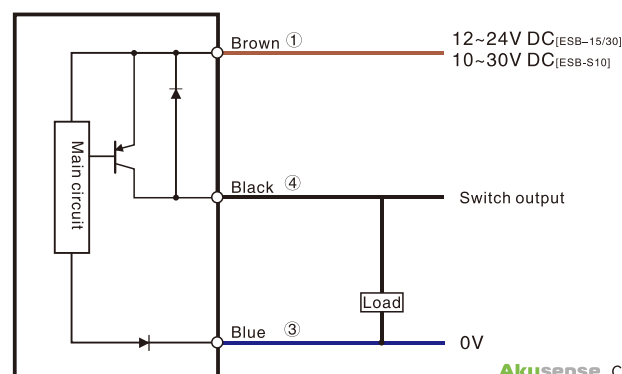


ESB-S10/15/30N(P)

NPN Output



PNP Output



ESB Series

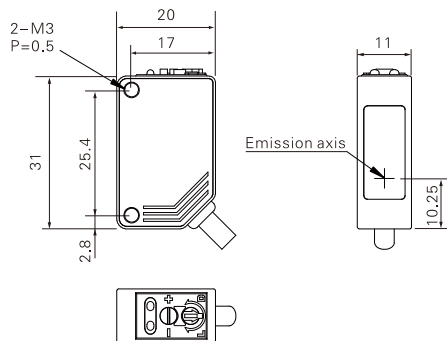


NEW!

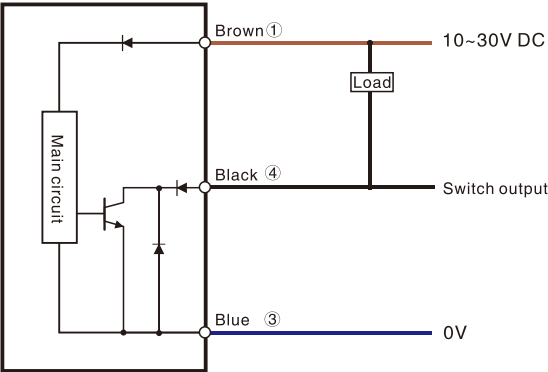
Sensing type		Disffuse reffective – Background suppression	
Sensing distance		10 ~ 300mm	10 ~ 200mm
Setting distance		40 ~ 300mm	40 ~ 200mm
Spot size		—	≈ Ø12mm/200mm
Hysteresis		≤5%	
Output		NPN/PNP Open – collector	
Switch type		L.on /D.on switchable	
Indicators		Power: green; motion indicator: red	
Response time		≤2ms	
Sensivity adjustment		6 turns adjuster	
Light source		Infrared LED 940nm (modulation)	Red LED 623nm (modulation)
Supply voltage		10~30V DC ± 10%	
Residual voltage		<1.5V	
Current consumption		≤25mA	
Load current		≤100mA	
Circuit protection		Power reverse polarity protection/surge protection/short circuit protection	
Ambient illuminance		Sunlight ≤5,000 lux, incandescent lamp ≤3,000 lux	
Ambient temperature		Working temperature: –25℃~+55℃, no freezing; storage: –30 ~ +70℃	
Ambient humidity		Working: 35%~85%RH; storage: 35%~95%RH,; no condensation	
Insulation resistance		20MΩ	
Withstand voltage		± 1000V 50/60Hz 60s	
Static electricity		± 8000V	
Group pulse		± 2000V (5kHz/50kHz)	
Anti-vibration		10~50Hz, 0.5mm amplitude, 2 hours each in X, Y, Z directions	
Degree of protection		IP65	
Connection		φ 4 mm, 2 m 3 wire cable	
Material		PBT+glass fiber (housing); PMMA (lens)	
Accessories		screwdriver	
Model No.	NPN	ESB-V30N	ESB-C20N
	PNP	ESB-V30P	ESB-C20P

Dimensions

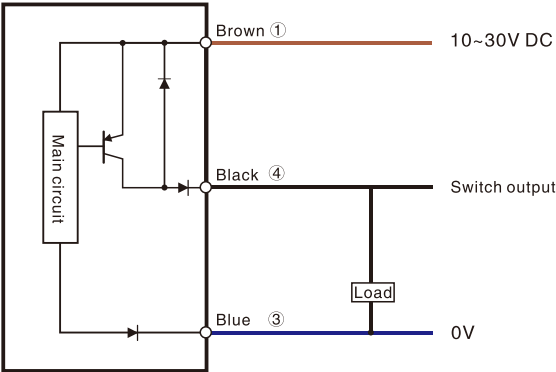
Unit: mm



NPN Output



PNP Output



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Code Readers

Vibration

Temperature

Accessories

Guidance

Photoelectric

Cylindrical

Square

Flat type

Thin type

BGS

Transparent detection

Color/Mark Detection

TOF type

IP69K high protection type

Anti-glare type

IO-Link type

Reflectors

Reflectors

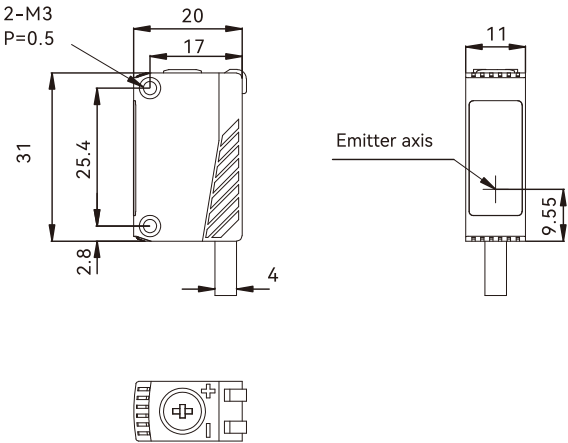
NEW!



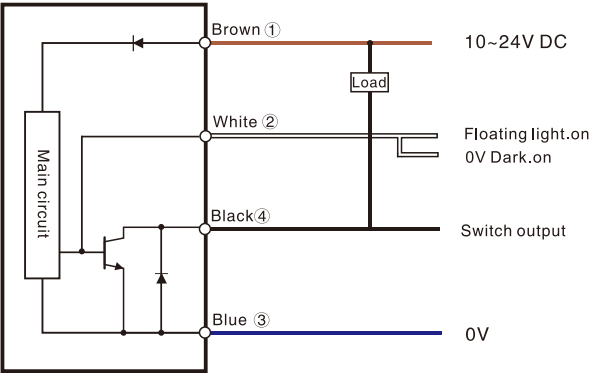
Sensing type	Diffuse reflection—Background suppression
Sensing distance	1~100mm
Setting distance	20~100mm
Spot size	65*0.5mm/100mm
Min. detectable object	φ 5mm(50mm)
Hysteresis	≤ 5%
Output type	NPN/PNP Open—collector
Switch type	L.on/D.on switchable
Indicators	Power:green;Output indicator:orange
Response time	≤0.3ms
Sensitivity adjustment	4 turns adjuster
Light source	Red LED
Supply voltage	10~24V DC
Residual voltage	<1V
Current consumption	≤20mA
Load current	≤100mA
Circuit protection	Power reverse polarity protection/Over current protection/Anti—light interference
Insulation resistance	Insulation resistance >20M Ω at DC500V between all terminals and housing
Anti-vibration	10~50Hz, 1.5mm amplitude, 2 hours each in X, Y, Z directions
Ambient illuminance	Sunlight ≤5,000 lux, incandescent lamp ≤2,000 lux, LED ≤2,000 lux
Ambient temperature	-10℃~+70℃, no freezing
Ambient humidity	35%~85% RH, no condensation
Degree of protection	IP66
Connection	Φ4 mm, 2 m 4 wire cable
Material	PBT+Glass fiber(housing); PMMA(lens)
Accessories	Bracket, screws
Model No.	NPN PNP
	ESB-BL10N ESB-BL10P

Dimensions

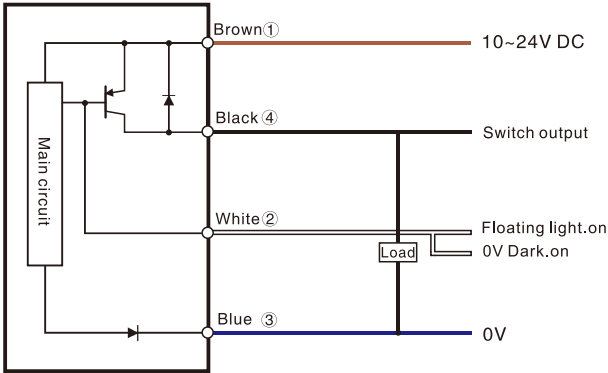
Unit: mm



NPN Output



PNP Output



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories

Guidance
Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF type
IP69K high protection type
Anti-glare type
IO-Link type
Reflectors

ESB Series

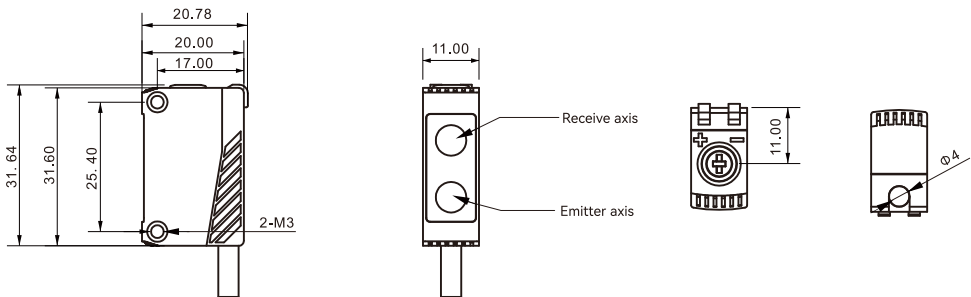


NEW!

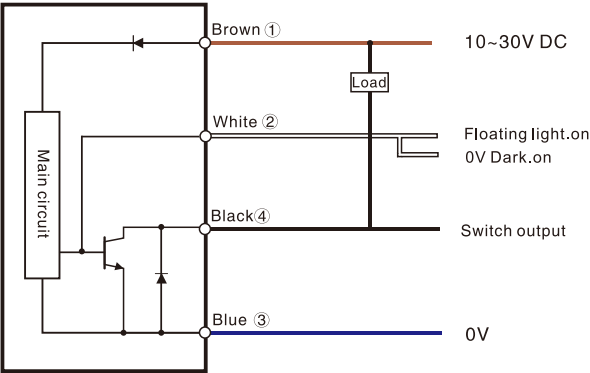
Sensing type		Diffuse reflection—Background suppression
Sensing distance		2~150mm(White matte paper)
Setting distance		20~150mm
Spot size		φ 2mm/150mm
Hysteresis		≤ 5%
Output type		NPN/PNP Open—collector
Switch type		L.on/D.on switchable
Indicators		Power:green;Motion indicator:red
Response time		≤ 1ms
Sensitivity adjustment		6 turns adjuster
Light source		Red LED 660nm(modulation)
Supply voltage		10~30V DC
Residual voltage		<1.5V
Current consumption		≤25mA
Load current		≤100mA
Circuit protection		Power reverse polarity protection/surge protection/short circuit protection
Installation in parallel		Supported
Insulation resistance		20M Ω
Ambient illuminance		Sunlight ≤10,000 lux,incandescent lamp ≤3,000 lux
Ambient temperature		Working temperature:−25℃~+55℃,no freezing;storage:−30℃~+70℃
Ambient humidity		Work: 35%~85%RH;storage: 35%~95%RH,;no condensation
Degree of protection		IP65
Connection		Φ4 mm, 2 m 4 wire cable
Material		PBT+Glass fiber(housing);PMMA(lens)
Accessories		Screwdriver
Model No.	NPN	ESB-BS15N
	PNP	ESB-BS15P

Dimensions

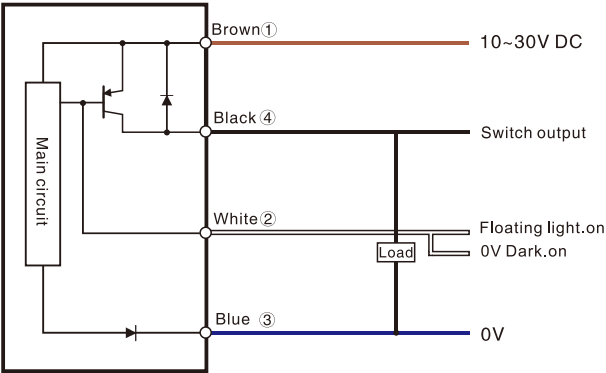
Unit: mm



NPN Output



PNP Output



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories

Guidance
Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF type
IP69K high protection type
Anti-glare type
IO-Link type
Reflectors

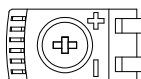
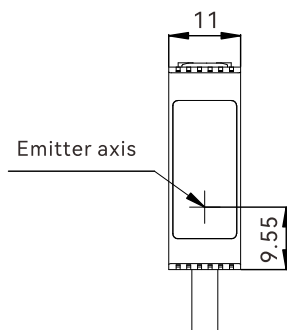
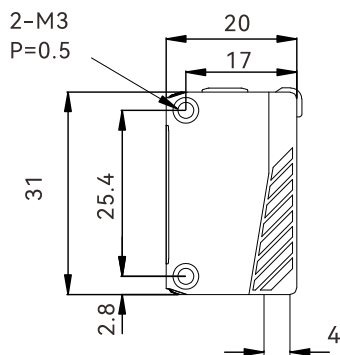


NEW!

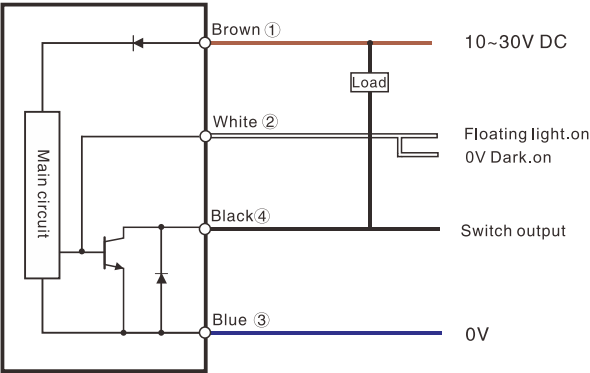
Sensing type	Diffuse reflection—Background suppression
Sensing distance	2~300mm(White matte paper)
Setting distance	30~300mm
Spot size	8mm/300mm
Hysteresis	≤5%
Output type	NPN/PNP Open—collector
Switch type	L.on/D.on switchable
Indicators	Power:green;Motion indicator:red
Response time	≤1ms
Sensitivity adjustment	6 turns adjuster
Light source	Red LED 660nm(modulation)
Supply voltage	10~30V DC
Residual voltage	<1.5V
Current consumption	≤20mA
Load current	≤100mA
Circuit protection	Power reverse polarity protection/surge protection/short circuit protection
Installation in parallel	Supported
Insulation resistance	20MΩ
Ambient illuminance	Sunlight ≤10,000 lux, incandescent lamp ≤3,000 lux
Ambient temperature	Working temperature: -25℃~+55℃, no freezing; storage: -30℃~+70℃
Ambient humidity	Work: 35%~85%RH; storage: 35%~95%RH,; no condensation
Degree of protection	IP67
Connection	Φ4 mm, 2 m 4 wire cable
Anti-vibration	10~50Hz, 0.5mm amplitude, 2hours each in X, Y, Z directions
Material	PBT+Glass fiber(housing); PMMA(lens)
Accessories	Screwdriver
Model No.	NPN ESB-BS30N PNP ESB-BS30P

Dimensions

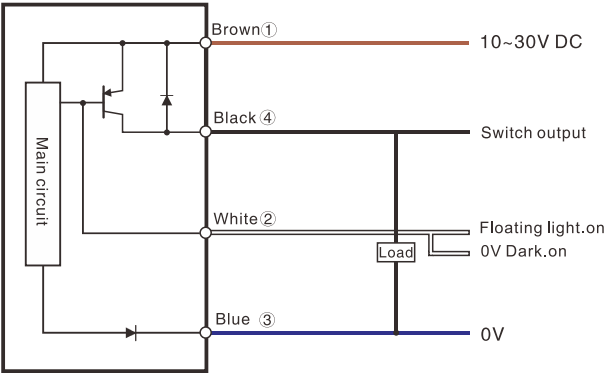
Unit: mm



NPN Output



PNP Output



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories

Guidance
Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF type
IP69K high protection type
Anti-glare type
IO-Link type
Reflectors



NEW!

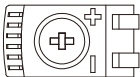
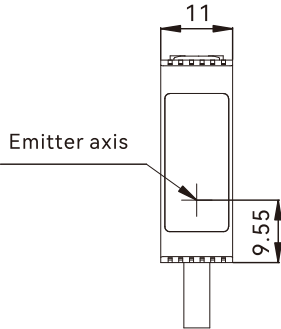
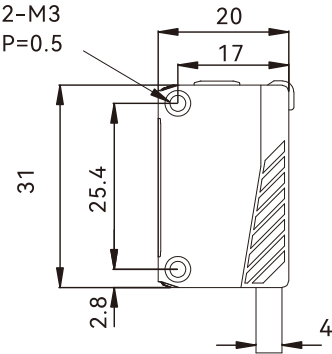
Sensing type	Diffuse reflection—Background suppression
Sensing distance	1~300mm(White matte paper)
Setting distance	300mm
Spot size	—
Hysteresis	≤5%
Output type	NPN/PNP Open—collector
Switch type	L.on/D.on switchable
Indicators	Power:green;Motion indicator:red
Response time	≤1ms
Sensitivity adjustment	6 turns adjuster
Light source	Infrared light LED 940nm(modulation)
Supply voltage	10~30V DC
Residual voltage	<1.5V
Current consumption	≤25mA
Load current	≤100mA
Circuit protection	Power reverse polarity protection/surge protection/short circuit protection
Installation in parallel	Supported
Insulation resistance	20MΩ
Ambient illuminance	Sunlight ≤10,000 lux,incandescent lamp ≤3,000 lux
Ambient temperature	Working temperature:−25℃~+55℃,no freezing;storage:−30℃~+70℃
Ambient humidity	Work: 35%~85%RH;storage: 35%~95%RH,;no condensation
Degree of protection	IP65
Connection	Φ4 mm, 2 m 4 wire cable
Anti-vibration	10~50Hz, 0.5mm amplitude,2hours each in X, Y,Z directions
Material	PBT+Glass fiber(housing);PMMA(lens)
Model No.	NPN
	PNP

ESB-BV30N

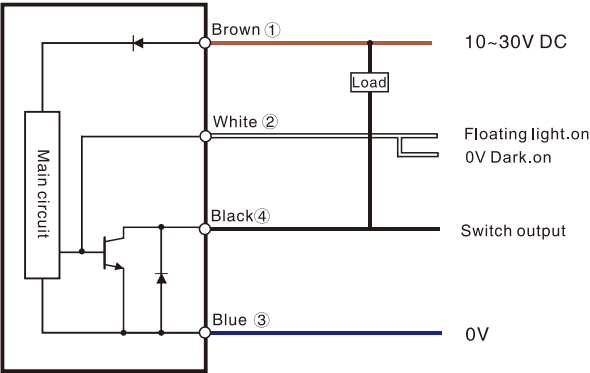
ESB-BV30P

Dimensions

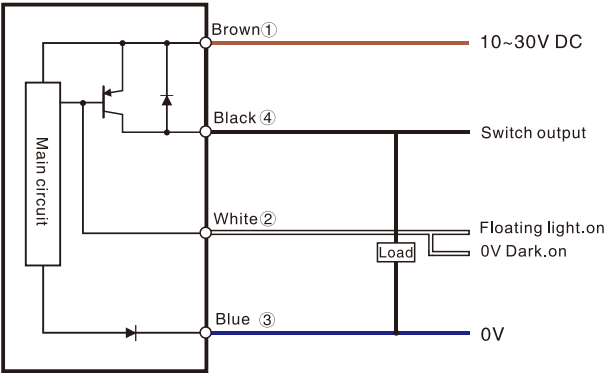
Unit: mm



NPN Output



PNP Output



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories

Guidance
Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF type
IP69K high protection type
Anti-glare type
IO-Link type
Reflectors