



Control



Drive



Sensor



M&E



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BETTER WORK, BETTER LIFE



General sensor



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Due to the delay in updating the paper version, please refer to the official website for the latest product information



— Become the most valuable industrial automation core components and solutions provider



HCFA was established in 2011. Its headquarters and production base are located in Longyou, Zhejiang Province. It has established five R&D centers in Longyou, Hangzhou, Shenzhen, Dalian and Suzhou. It is a company focusing on the research and development of industrial automation products, Manufacturing, sales and application integration, an enterprise dedicated to providing core components and system integration solutions for smart factories. The products cover five major parts: control, drive, sensor, electromechanical, and information, including servo system, controller (PLC), vision system, encoder, frequency converter, touch screen, etc. There are nearly 500 models of products, and they have passed CE , RoHS product certification. Products are widely used in OEM fields such as photovoltaic electronics, 3C electronics, lithium batteries, robots, packaging, textiles, logistics, lasers, and metal processing.



The company has successively won the "National High-tech Enterprise", "Provincial Key Enterprise Research Institute", "Provincial High-tech Enterprise Research and Development Center", "Provincial Industrial Design Center", "Provincial Enterprise Technology Center", "Zhejiang Province "Invisible Champion "Enterprise", "Zhejiang Famous Firm" and many other honors.

R&D Center

5

Set up nationally

Global distributors

400+

Products sell well overseas

Sales office

40+

Gathering of sales elites

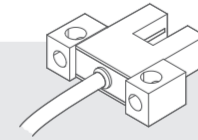
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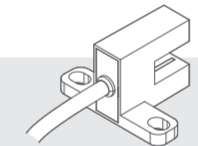


05

Lead-wire type slot photoelectric sensor (45 series)

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Dimensions for Lead-wire type slot photoelectric sensor (45 series)

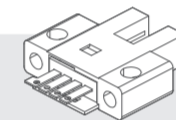


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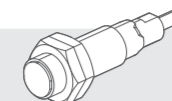


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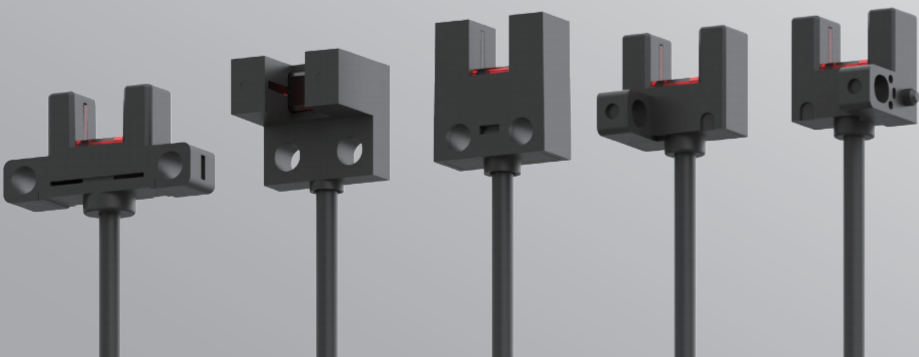
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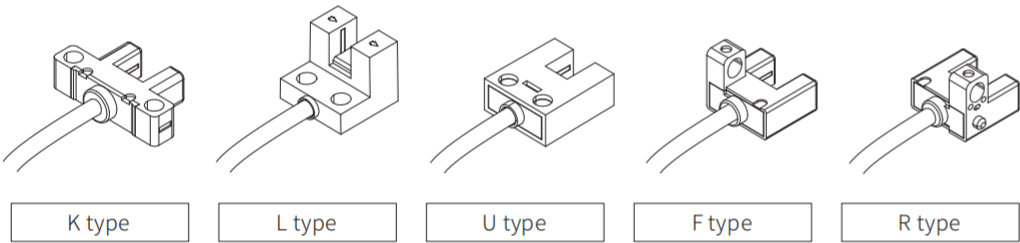
Lead-wire Type Slot Photoelectric Sensor

HSM-□25 Series

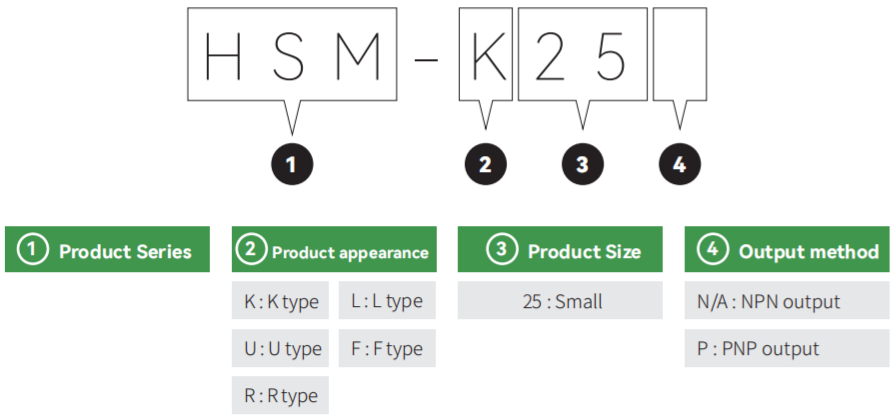


Various models to choose

5 different types available, from which you can select a model that meets your installation conditions.



Naming Rules



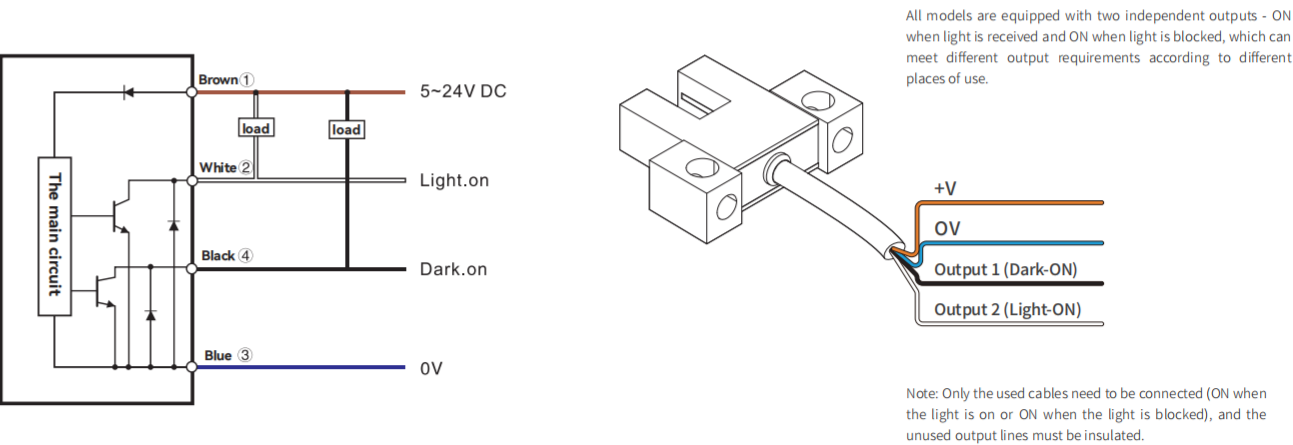
Type	Groove width	Appearance				
		K type	L type	U type	F type	R type
Lead-wire type	5mm	HSM-K25	HSM-L25	HSM-U25	HSM-F25	HSM-R25

Technical Parameters

Type	K type	L type	U type	F type	R type
Detection distance	5mm (Groove width)				
Standard test substance	Opaque objects above 0.8×1.2mm				
Repeatability	Below 0.03mm				
Output mode	NPN open collector				
Switch mode	Can be switchable between L.on(Light-ON) and D.on(Dark-ON)				
Indicator	The light is off when an object is detected, and the light is on when there is no object				
Response frequency	3KHz				
Light source	Infrared light				
Operating Voltage	5~24V DC				
Residual voltage	Below 1V (when the load current is 100mA)				
Current consumption	≤8mA				
Circuit protection	Surge protection, reverse polarity protection				
Ambient light	Light-receiving surface illuminance Incandescent lamp: below 1000lux				
Ambient temperature	Working: -25°C~+55°C Storage: -30°C~+80°C, no freezing				
Environment humidity	Working: 5%~85%RH Storage: 5%~95%RH, no condensation				
Withstand voltage	AC, 1000V for 1 minute, between all power connection terminals and the shell				
Vibration resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X, Y, Z directions				
Insulation resistance	More than 20MΩ between all power connection terminals and the shell (based on DC250V)				
Material	PC				
Wiring	2M4 core cable				
Model NPN	HSM-K25	HSM-L25	HSM-U25	HSM-F25	HSM-R25

Wiring diagram

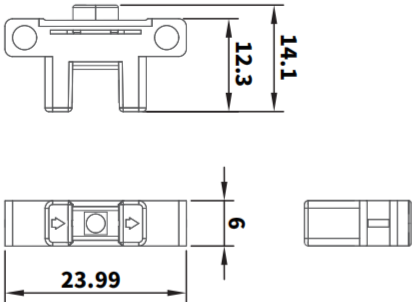
DC 4-wire NPN output



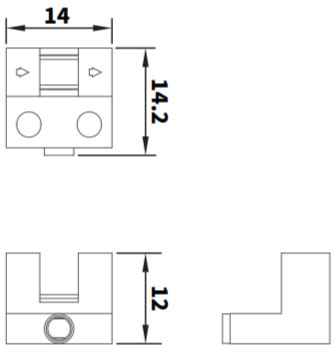
External dimensions

Unit: mm

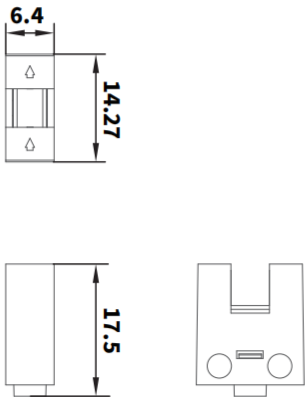
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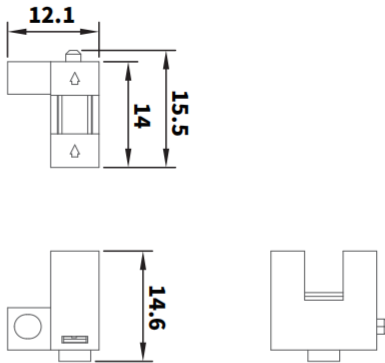
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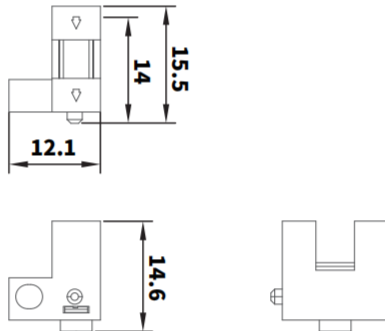
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[HSM-F25]



[HSM-R25]



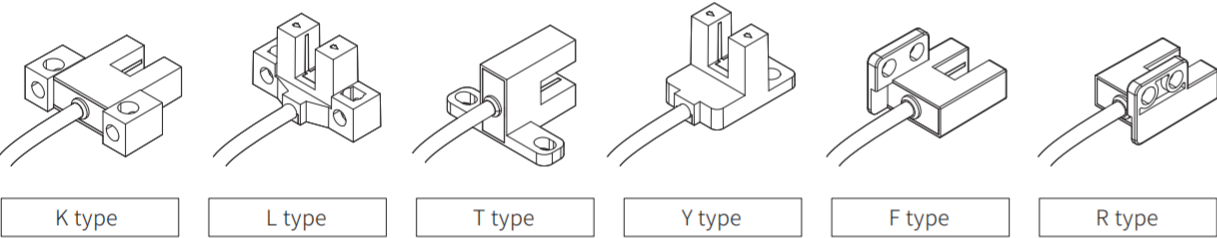
Lead-wire Type Slot Photoelectric Sensor

HSM-□45 Series

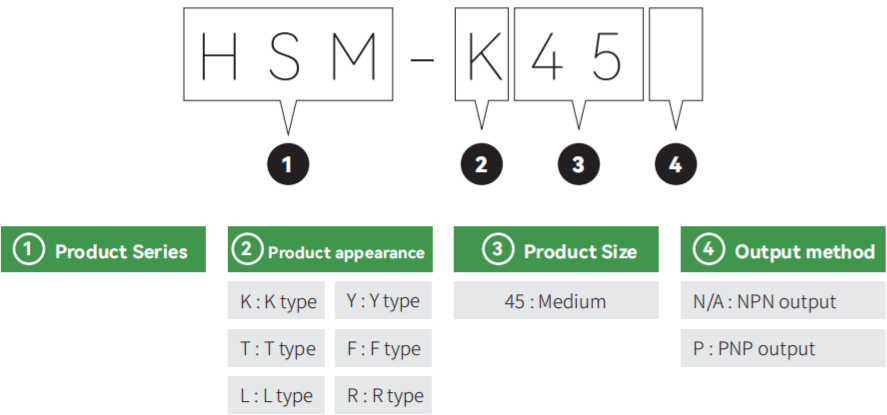


Various models to choose from

6 different types available, from which you can select a model that meets your installation conditions.



Naming Rules



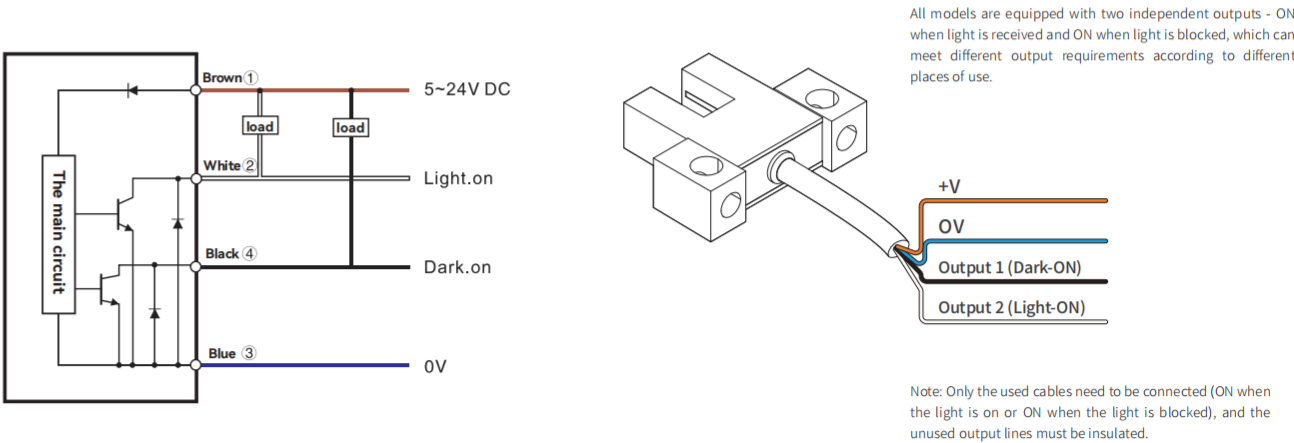
Type	Groove width	Appearance					
		K type	L type	T type	Y type	F type	R type
Lead-wire type	<div><div></div>5mm</div>	HSM-K45	HSM-L45	HSM-T45	HSM-Y45	HSM-F45	HSM-R45

Technical Parameters

Type	K type	L type	T type	Y type	F type	R type
Detection distance	5mm (Groove width)					
Standard test substance	Opaque objects above 0.8×1.2mm					
Repeatability	Below 0.03mm					
Output mode	NPN open collector					
Switch mode	Can be switchable between L.on(Light-ON) and D.on(Dark-ON)					
Indicator light	The light is off when an object is detected, and the light is on when there is no object					
Response frequency	3KHz					
Light source	Infrared light					
Operating Voltage	5~24V DC					
Residual voltage	Below 1V (when the load current is 100mA)					
Current consumption	≤8mA					
Circuit protection	Surge protection, reverse polarity protection					
Ambient light	Light-receiving surface illuminance Incandescent lamp: below 1000lux					
Ambient temperature	Working: -25°C~+55°C Storage: -30°C~+80°C, no freezing					
Environment humidity	Working: 5%~85%RH Storage: 5%~95%RH, no condensation					
Withstand voltage	AC, 1000V for 1 minute, between all power connection terminals and the shell					
Vibration resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X, Y, Z directions					
Insulation resistance	More than 20MΩ between all power connection terminals and the shell (based on DC250V)					
Material	PC					
Wiring	2M4 core cable					
Model NPN	HSM-K45	HSM-L45	HSM-T45	HSM-Y45	HSM-F45	HSM-R45

Wiring diagram

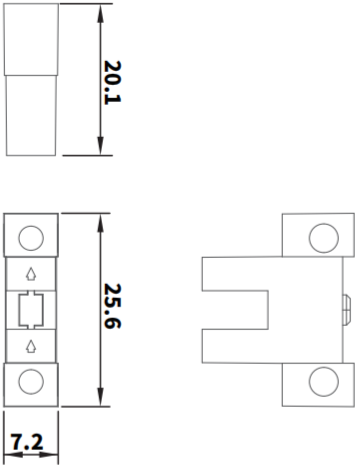
DC 4-wire NPN output



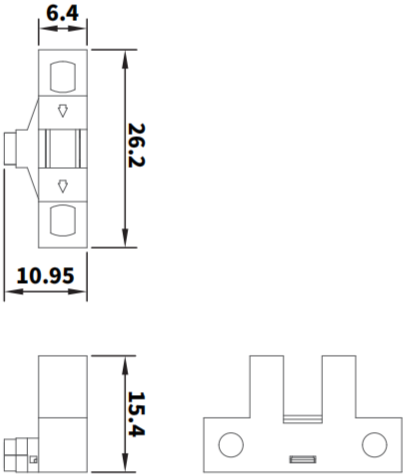
External dimensions

Unit: mm

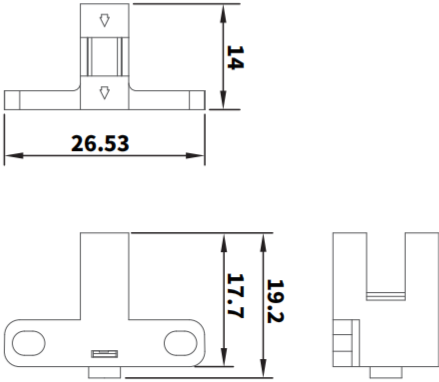
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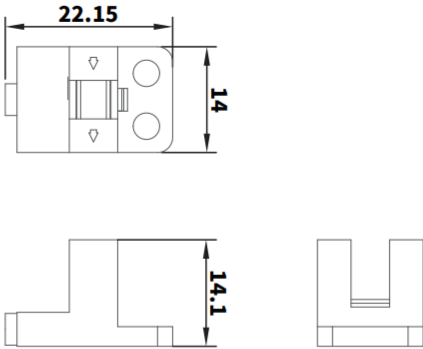
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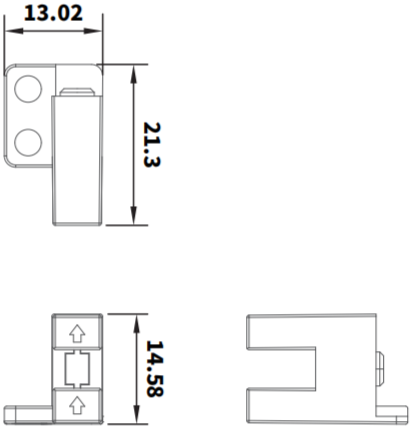
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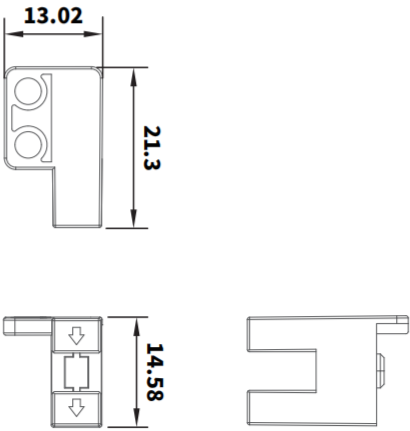
[HSM-Y45]



[HSM-F45]

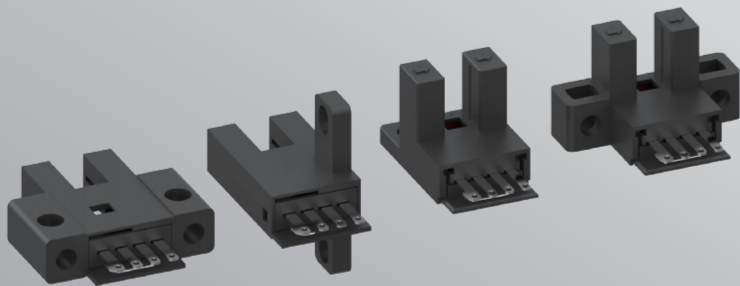


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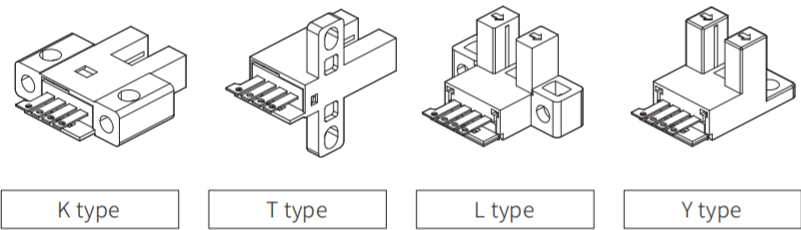
Plug-in slot photoelectric sensor

HSM-□67 Series

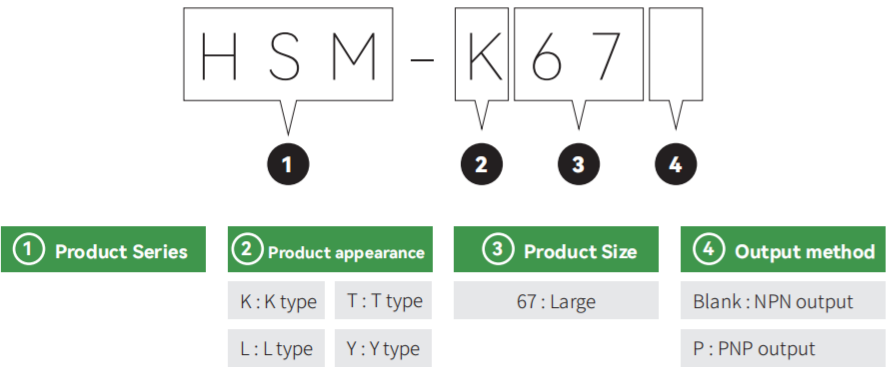


Various models to choose from

There are as many as 4 types of shapes available, from which you can select a model that meets your installation conditions.



Product Model Naming Rules



Type	Groove width	Appearance			
		K type	T type	L type	Y type
Plug-in type	5mm	HSM-K67	HSM-T67	HSM-L67	HSM-Y67

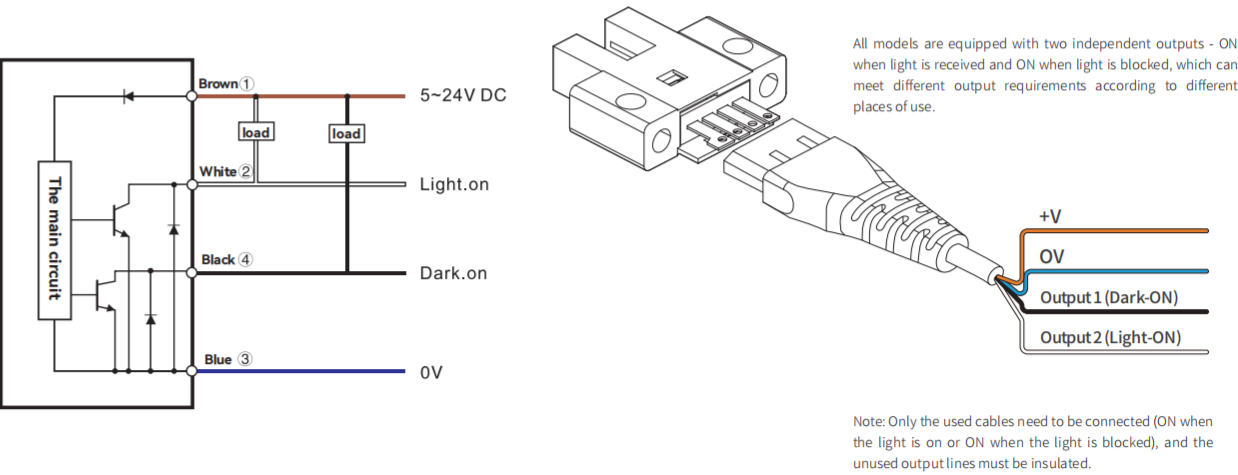
Type	Line length	Model
Wire	2m	HSM-J1006

Technical Parameters

Type	K type	T type	L type	Y type
Detection distance	5mm (Groove width)			
Standard test substance	Opaque objects above 0.8×1.2mm			
Repeatability	Below 0.03mm			
Output mode	NPN open collector			
Switch mode	L.on (light receiving action)/D.on (shading action) switchable			
Indicator light	The light is off when an object is detected, and the light is on when there is no object			
Response frequency	3KHz			
Light source	Infrared light			
Operating Voltage	5~24V DC			
Residual voltage	Below 1V (when the load current is 100mA)			
Current consumption	≤8mA			
Circuit protection	Surge protection, reverse polarity protection			
Ambient light	Light-receiving surface illuminance Incandescent lamp: below 1000lux			
Ambient temperature	Working: -25°C~+55°C Storage: -30°C~+80°C, no freezing			
Environment humidity	Working: 5%~85%RH Storage: 5%~95%RH, no condensation			
Withstand voltage	AC, 1000V for 1 minute, between all power connection terminals and the shell			
Vibration resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X, Y, Z directions			
Insulation resistance	More than 20MΩ between all power connection terminals and the shell (based on DC250V)			
Material	PC			
Wiring	connector			
Model NPN	HSM-K67	HSM-T67	HSM-L67	HSM-Y67

Wiring diagram

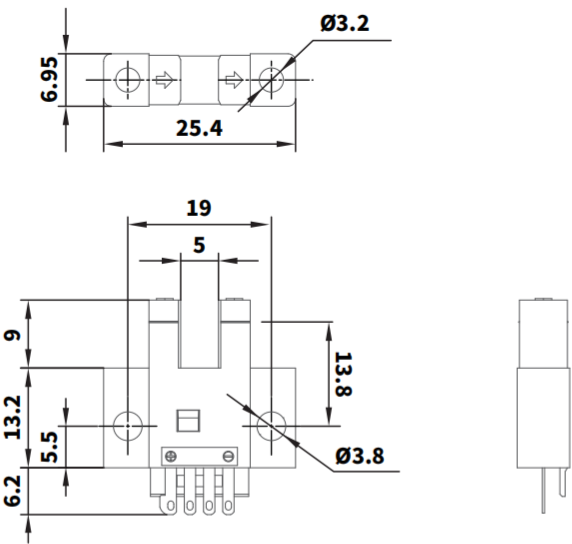
DC 4-wire NPN output



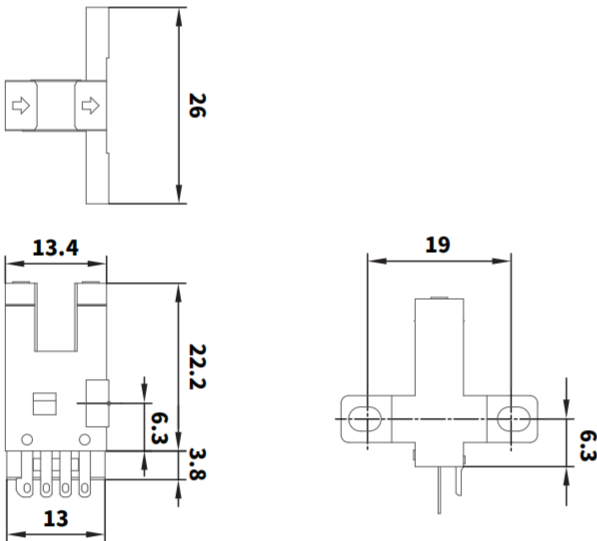
External dimensions

Unit: mm

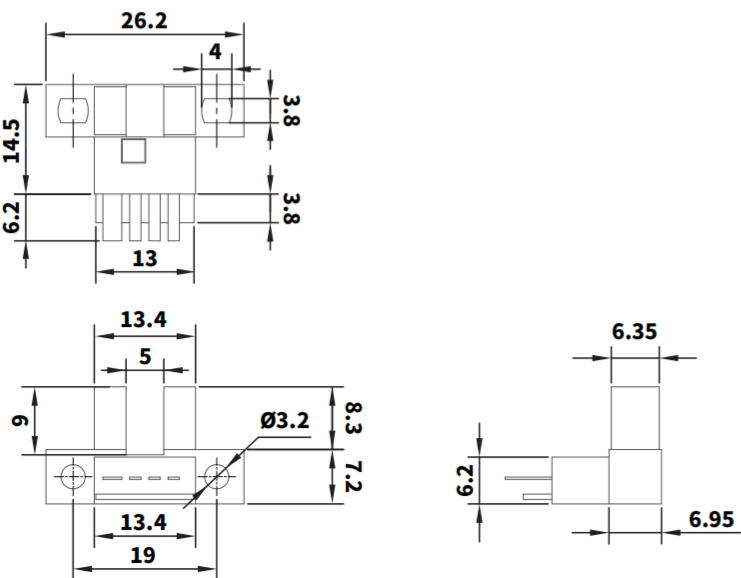
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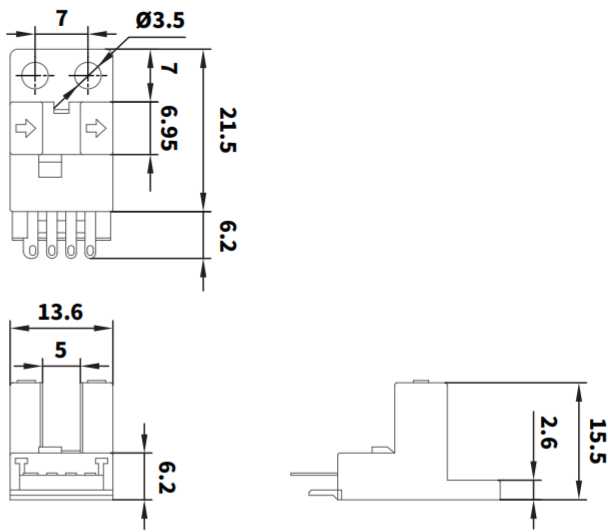
[HSM-T67]



[HSM-L67]



[HSM-Y67]

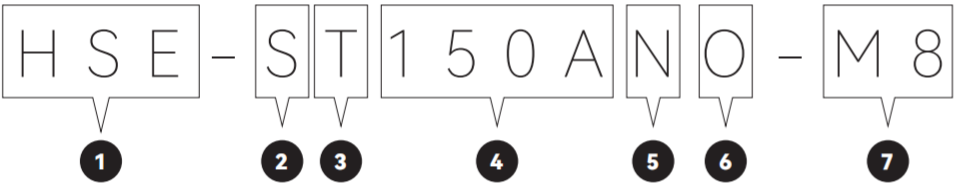


Photoelectric Sensors

HSE Series



Naming Rules



① Product Series	② Product overview	③ Detection type	④ Detection distance	⑤ Output method	⑥ Normally open normally closed
	S : Standard Square	T : Through-beam	150 : Indicate directly	N : NPN output	N/A : normally open + normally closed
	R : Cylindrical	R : Retroreflective type	A : Indicate 00	P : PNP output	O : Normally open
	L : Small-size	D : Diffuse reflection type		R : Relay output	C : Normally closed
	M : Mini-size	B : Background suppression type			
		LD:Laser reflective type			
		LT: Laser correlation type			
		F:TOF type			
⑦ Wiring					
N/A : Lead-wire					
M8 : M8 connector relay					
M12 : M12 connector relay					

Specifications

Type		Detection distance	Output method (NPN)	Output method (PNP)	Light source
Through-beam	Standard type	15m	HSE-ST150AN	HSE-ST150AP	Red LED
Diffuse reflection type	Diffuse reflection Standard type	100mm	HSE-SD0100N	HSE-SD0100P	Red LED
	Diffuse reflection Long range	300mm	HSE-SD0300N	HSE-SD0300P	Red LED
Retroreflective type	Standard type Without MSR	4m	HSE-SR4000N	HSE-SR4000P	Red LED
Correlation type	Through-beam	50m	HSE-SLT5AAN	HSE-SLT5AAP	Red laser
Diffuse reflection type	Diffuse reflection Laser type	500mm	HSE-SLD500N	HSE-SLD500P	Red laser
Background suppression type	BGS Standard type	100mm	HSE-SB0100N	HSE-SB0100P	Red LED
	BGS Long range	300mm	HSE-SB0300N	HSE-SB0300P	Red LED
TOF Type	Standard type	1500mm	HSE-SF1500N	HSE-SF1500P	Infrared laser
	Long range	4000mm	HSE-SF4000N	HSE-SF4000P	Infrared laser

Technical Parameters

Items \ Model	NPN Output PNP Output	Detection method	Through-beam	Retroreflective type	Reflective type	
		Lead-wire	HSE-ST150AN	HSE-SR4000N	HSE-SD0100N	HSE-SD0300N
			HSE-ST150AP	HSE-SR4000P	HSE-SD0100P	HSE-SD0300P
Object detection			Diameter ≥ 5mm opaque	Diameter ≥ 12mm opaque	100×100mm white drawing paper	
Light source (wavelength)			Red LED			
Voltage			12-24VDC, ripple (P-P) 10% max (DC10-30)			
Current consumption			≤25mA		≤45mA	
Control output			Load power supply current below 100mA (residual voltage below 1V)			
Circuit protection			Surge protection circuit, short circuit protection, reverse polarity protection			
Response time			1.0 ms or less for both operation and response			
Indicator light			Action indicator light (red)			
Ambient temperature			Operation: -25~+55°C (no freezing, no condensation) Storage: -40°C~+70°C (no freezing, no condensation)			
Ambient light			Sunlight: below 10000LX Incandescent lamp: below 3000LX			
Environment humidity			When operating: 45%~85% (no freezing) RH When saving: 35%~85% (no freezing) RH			
Effect of voltage			When the rated power supply voltage fluctuates within ±15%, the detection distance changes within ±1%			
Insulation resistance			More than 20MΩ (DC500 megohmmeter) between the charging part and the shell			
Dielectric strength			Above AC1000V, at 50/60Hz for 1min, between the charging part and the shell			
Vibration (durable)			10-50Hz, 1.5mm double amplitude, up to 1h in X, Y, Z directions			
Impact (durable)			500m/s ² double amplitude, 3 times in each direction of X, Y, Z			
Connection method			Lead-wire type lead type (standard 2m)			
Shell material			PC			

Technical Parameters

Items	Model	NPN Output PNP Output	Detection method	Through-beam	Reflective type
			Lead-wire	HSE-SLT5AAN	HSE-SLD500N
				HSE-SLT5AAP	HSE-SLD500P
Object detection			Diameter ≥ 2mm opaque		10×10mm white drawing paper
Light source (wavelength)			660nm Red laser		
Voltage			DC12-24V ripple (P-P) below 10% (DC10-30)		
Current consumption			≤45mA		≤55mA
Control output			Load power supply current below 150mA (residual voltage below 1V)		
Circuit protection			Surge protection circuit, short circuit protection, reverse polarity protection		
Response time			1.0 ms or less for both operation and response		
Indicator light			Action indicator light (red)		
Ambient temperature			Operation: -25~+55°C (no freezing, no condensation) Storage: -40°C~+70°C (no freezing, no condensation)		
Ambient light			Sunlight: below 10000LX Incandescent lamp: below 3000LX		
Environment humidity			When operating: 45%~85% (no freezing) RH When saving: 35%~85% (no freezing) RH		
Effect of voltage			When the rated power supply voltage fluctuates within ±15%, the detection distance changes within ±1%		
Insulation resistance			More than 20MΩ (DC500 megohmmeter) between the charging part and the shell		
Dielectric strength			Above AC1000V, at 50/60Hz for 1min, between the charging part and the shell		
Vibration (durable)			10~50Hz, 1.5mm double amplitude, up to 1h in X, Y, Z directions		
Impact (durable)			500m/s ² double amplitude, 3 times in each direction of X, Y, Z		
Connection method			Lead-Wire type (standard 2m)		
Shell material			ABS		

Technical Parameters

		Detection method	Background suppression	
Items	Model	NPN Output	HSE-SB0100N	HSE-SB0300N
		PNP Output		
Object detection			100×100mm white drawing paper	
Light source			Red LED	
Operating Voltage			10~30V DC±10%	
Current consumption			≤30mA	
Output mode			NPN/PNP integrated electrode open circuit, ≤100mA/30V DC	
Switch mode			L. on (light received) / D.on (shading action) can be switched	
Response time			<2ms	
Indicator light			Working indicator light: green, output indicator light: orange	
Ambient temperature			-25℃±55℃	
Ambient light			Sunlight: below 10000LX Incandescent lamp: below 3000LX	
Environment humidity			35%~85% no freezing	
Sensitivity adjustment			Single turn potentiometer	
Shell material			ABS (housing); PC (lens)	

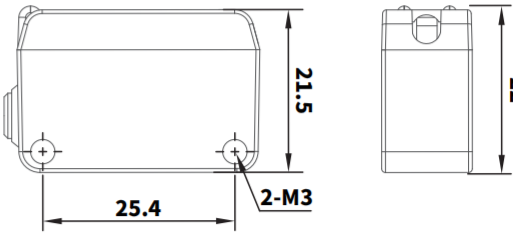
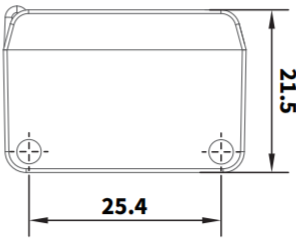
Technical Parameters

		Detection method		TOF Type	
Items	Model	NPN Output	Lead-wire	HSE-SF1500N	HSE-SF4000N
		PNP Output		HSE-SF1500P	HSE-SF4000P
Detect object			100×100mm white drawing paper		
Light source (wavelength)			Infrared laser (940nm) IEC CLASS1		
Voltage			DC12~24V±10%		
Current consumption			≤20mA		
Control output			Load power supply current below 150mA (residual voltage below 1V)		
Circuit protection			Surge protection circuit, short circuit protection, reverse polarity protection		
Response time			1.0 ms or less for both operation and response		
Indicator light			Action indicator light (red)		
Ambient temperature			Operation: -25~+55℃ (no freezing, no condensation) Storage: -40℃~+70℃ (no freezing, no condensation)		
Ambient light			Sunlight: Below 10000LX		
Environment humidity			When operating: 45%~85% (no freezing) RH When saving: 35%~85% (no freezing) RH		
Effect of voltage			When the rated power supply voltage fluctuates within ±15%, the detection distance changes within ±1%		
Insulation resistance			More than 20MΩ (DC500 megohmmeter) between the charging part and the shell		
Dielectric strength			Above AC1000V, at 50/60Hz for 1min, between the charging part and the shell		
Vibration (durable)			10~50Hz, 1.5mm double amplitude, up to 1h in X, Y, Z directions		
Impact (durable)			500m/s ² double amplitude, 3 times in each direction of X, Y, Z		
Connection method			Lead-wire type(standard 2m)		
Shell material			ABS		

Dimensions Unit: mm

[HSE-ST150AN/P , HSE-SLT5AAN/P]

Wiring sequence	Specification
Brown	+24V
White	Normally closed switch
Blue	0V
Black	Normally open output

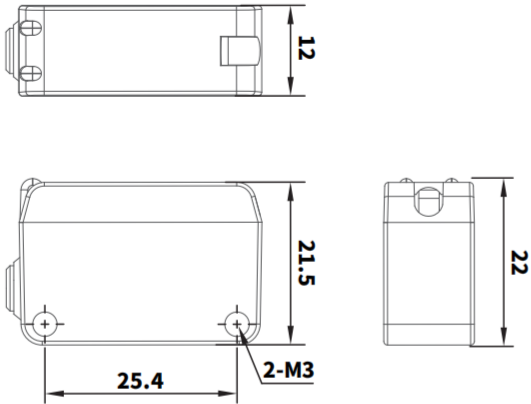


Light projector

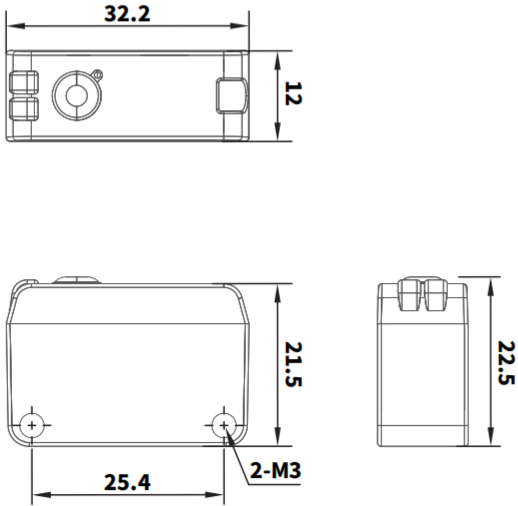
Light receiver

DimensionsUnit: mm

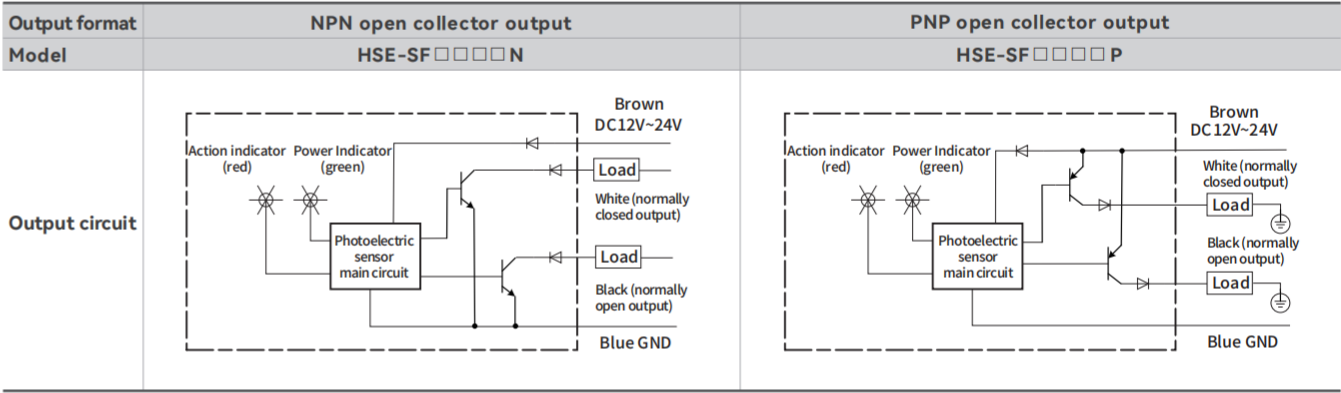
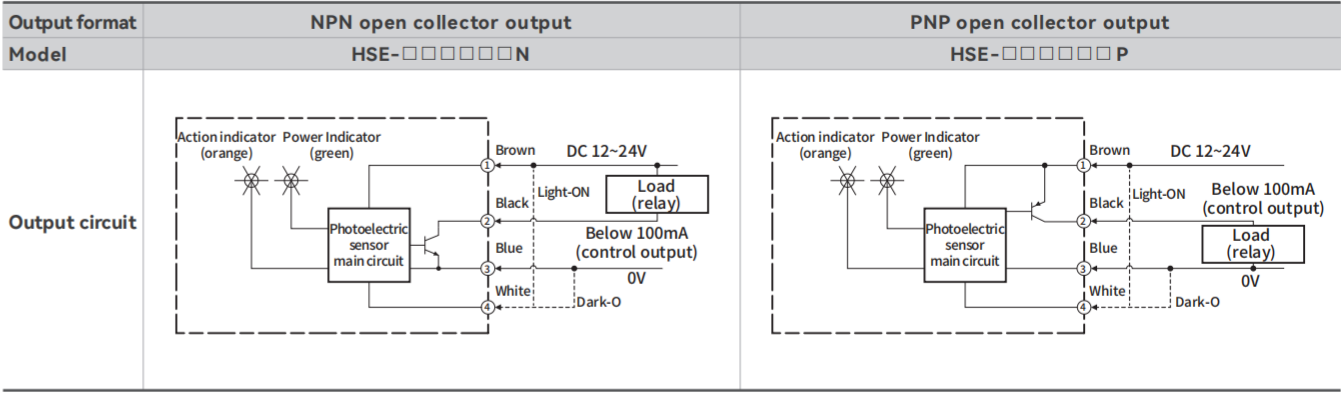
[HSE-SD01/300N/P 、 HSE-SR4000N/P 、 HSE-SLD500N/P 、 HSE-SB01/300N/P]



[HSE-SF1500N/P 、 HSE-SF4000N/P]

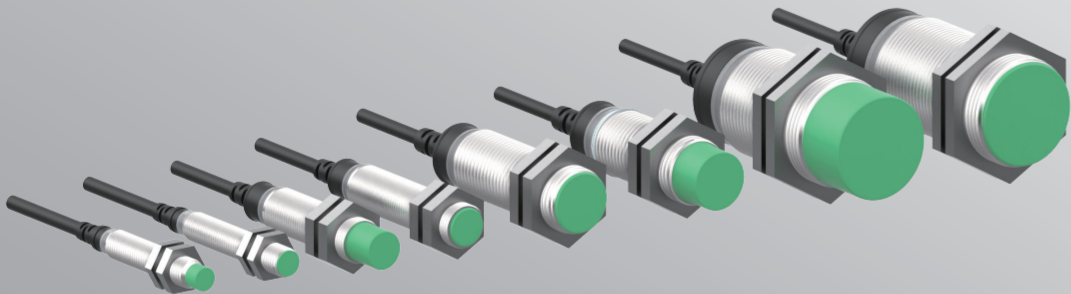


Wiring definition diagram

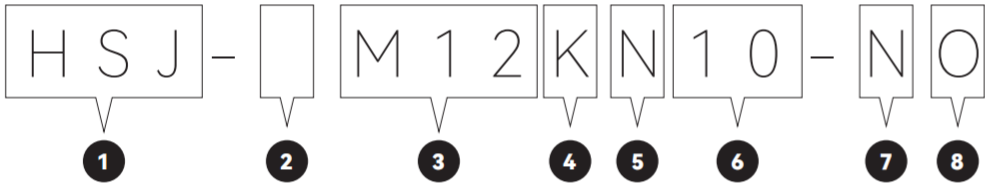


Proximity sensor

HSJ Series



Naming Rules



① Product Series	② Product overview	③ Product Size	④ Thread length	⑤ Shielded/Unshielded	⑥ Detection distance
	Blank : Cylindrical	M8 :8mm	K :Standard type	S : Shielded	10 : Indicate directly
	S : Square	M12 :12mm	L :Long thread type	N : Unshielded	
		M18 :18mm			
		M30 :30mm			
⑦ Output method	⑧ Normally open normally closed				
N : NPN Output	O : Normally open				
P : PNP Output	C : Normally closed				
A : AC					
D : DC					

Specifications

Type		Detection distance	NPN Normally open	NPN Normally closed	PNP Normally open	PNP Normally closed
M8 close to double distance	Shield	2mm	HSJ-M8KS02-NO	HSJ-M8KS02-NC	HSJ-M8KS02-PO	HSJ-M8KS02-PC
	Unshield	4mm	HSJ-M8KN04-NO	HSJ-M8KN04-NC	HSJ-M8KN04-PO	HSJ-M8KN04-PC
M12 close to double distance	Shield	4mm	HSJ-M12KS04-NO	HSJ-M12KS04-NC	HSJ-M12KS04-PO	HSJ-M12KS04-PC
	Unshield	8mm	HSJ-M12KN08-NO	HSJ-M12KN08-NC	HSJ-M12KN08-PO	HSJ-M12KN08-PC
M18 close to double distance	Shield	8mm	HSJ-M18KS08-NO	HSJ-M18KS08-NC	HSJ-M18KS08-PO	HSJ-M18KS08-PC
	Unshield	16mm	HSJ-M18KN16-NO	HSJ-M18KN16-NC	HSJ-M18KN16-PO	HSJ-M18KN16-PC
M30 close to double distance	Shield	15mm	HSJ-M30KS15-NO	HSJ-M30KS15-NC	HSJ-M30KS15-PO	HSJ-M30KS15-PC
	Unshield	25mm	HSJ-M30KN25-NO	HSJ-M30KN25-NC	HSJ-M30KN25-PO	HSJ-M30KN25-PC
Type		Detection distance	DC two-wire normally open	DC two-wire normally closed	AC two lines normally open	AC two-wire normally closed
M8 close to double distance	Shield	2mm	HSJ-M8KS02-DO	HSJ-M8KS02-DC	-	-
	Unshield	4mm	HSJ-M8KN04-DO	HSJ-M8KN04-DC	-	-
M12 close to double distance	Shield	4mm	HSJ-M12KS04-DO	HSJ-M12KS04-DC	HSJ-M12KS04-AO	HSJ-M12KS04-AC
	Unshield	8mm	HSJ-M12KN08-DO	HSJ-M12KN08-DC	HSJ-M12KN08-AO	HSJ-M12KN08-AC
M18 close to double distance	Shield	8mm	HSJ-M18KS08-DO	HSJ-M18KS08-DC	HSJ-M18KS08-AO	HSJ-M18KS08-AC
	Unshield	16mm	HSJ-M18KN16-DO	HSJ-M18KN16-DC	HSJ-M18KN16-AO	HSJ-M18KN16-AC
M30 close to double distance	Shield	15mm	HSJ-M30KS15-DO	HSJ-M30KS15-DC	HSJ-M30KS15-AO	HSJ-M30KS15-AC
	Unshield	25mm	HSJ-M30KN25-DO	HSJ-M30KN25-DC	HSJ-M30KN25-AO	HSJ-M30KN25-AC

Technical Parameters

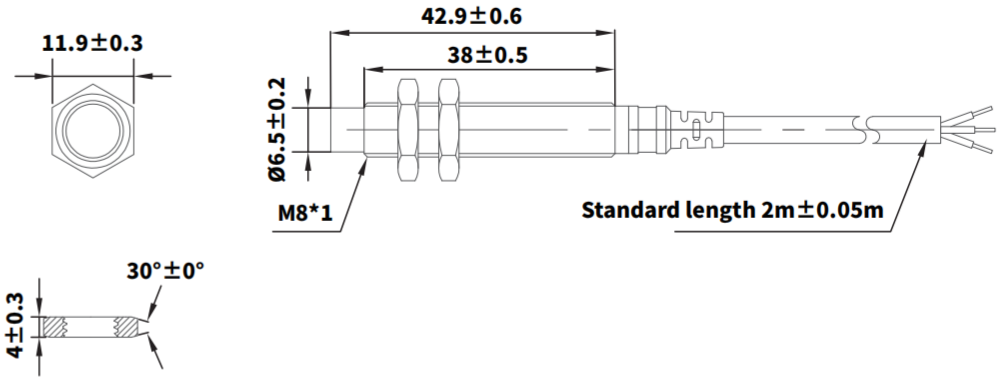
Items	Size	M8		M12	
	Type	Shielded type	Unshielded type	Shielded type	Unshielded type
	Model	HSJ-M8KS02	HSJ-M8KN04	HSJ-M12KS04	HSJ-M12KN08
Detection distance		2mm±10%	4mm±10%	4mm±10%	8mm±10%
Set distance		0~1.6mm	0~3.2mm	0~3.2mm	0~6.4mm
Shock distance		Within 5% of the detection distance			
Detectable objects		Magnetic metal (non-magnetic metal detection distance will be reduced)			
Standard test object (mild steel)		8×8×1mm	12×12×1mm	12×12×1mm	24×24×1mm
Response frequency		1500Hz	1000Hz	1000Hz	800Hz
Voltage		10~30VDC			
Current consumption		Below 10mA			
Output type		N type: NPN; P type: PNP			
Control output	Load current	Below 200mA			
	Residual voltage	Below 2V			
Indicator light		Action Indicator (Red LED)			
Action mode		O type: normally open C type: normally closed			
Circuit protection		Output polarity reverse connection protection, power supply polarity reverse connection protection, surge absorption, short circuit protection			
Ambient temperature		Working and storage: -25~+70℃ (no freezing, no condensation)			
Environment humidity		Working and storage: 35~95%			
Insulation resistance		Under the condition of DC500V, more than 50MΩ (between the power supply part and the shell)			
Insulation strength		50/60Hz, 1 minute under the condition of AC1000V (between the power part and the shell)			
Vibration resistance		10~55Hz, up and down amplitude 1.5mm, X, Y, Z each direction 2h			
Connection method		Lead-wire type (2m wire is reserved for standard type)			
Degree of protection		IP66			
Material	Shell	Nickel-plated brass			
	detection surface	PBT			
	fastening nut	Nickel-plated brass			

Item	Size	M18		M30	
	Type	Shielded type	Unshielded type	Shielded type	Unshielded type
	Model	HSJ-M18KS08	HSJ-M18KN16	HSJ-M30KS15	HSJ-M30KN25
Detection distance		8mm±10%	16mm±10%	15mm±10%	25mm±10%
Set distance		0~6.4mm	0~12.8mm	0~12mm	0~22mm
Shock distance		Within 5% of the detection distance			
Detectable objects		Magnetic metal (non-magnetic metal detection distance will be reduced)			
Standard test object (mild steel)		24*24*1mm	48*48*1mm	45*45*1mm	90*90*1mm
Response frequency		500Hz	400Hz	250Hz	100Hz
Voltage		10~30VDC			
Current consumption		Below 10mA			
Output type		N Type:NPN			
Control output	Load current	Below 200mA			
	Residual voltage	Below 2V			
Indicator light		Action Indicator (Red LED)			
Action mode		O type: normally open C type: normally closed			
Circuit protection		Output polarity reverse connection protection, power supply polarity reverse connection protection, surge absorption, short circuit protection			
Ambient temperature		Working and storage: -25~+70℃ (no freezing, no condensation)			
Environment humidity		Working and storage: 35~95%			
Insulation resistance		Under the condition of DC500V, more than 50MΩ (between the power supply part and the shell)			
Insulation strength		50/60Hz, 1 minute under the condition of AC1000V (between the power part and the shell)			
Vibration resistance		10~55Hz, up and down amplitude 1.5mm, X, Y, Z each direction 2h			
Connection method		Lead-wire type (2m wire is reserved for standard type)			
Degree of protection		IP66			
Material	Shell	Nickel-plated brass			
	detection surface	PBT			
	fastening nut	Nickel-plated brass			

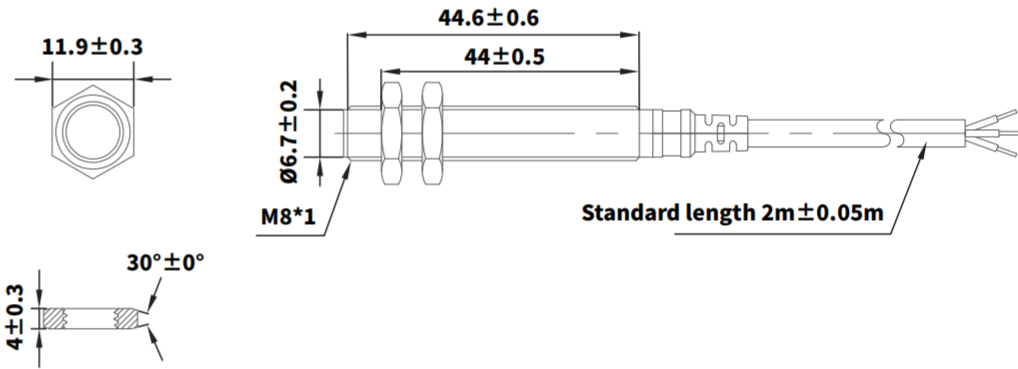
Dimensions

Unit: mm

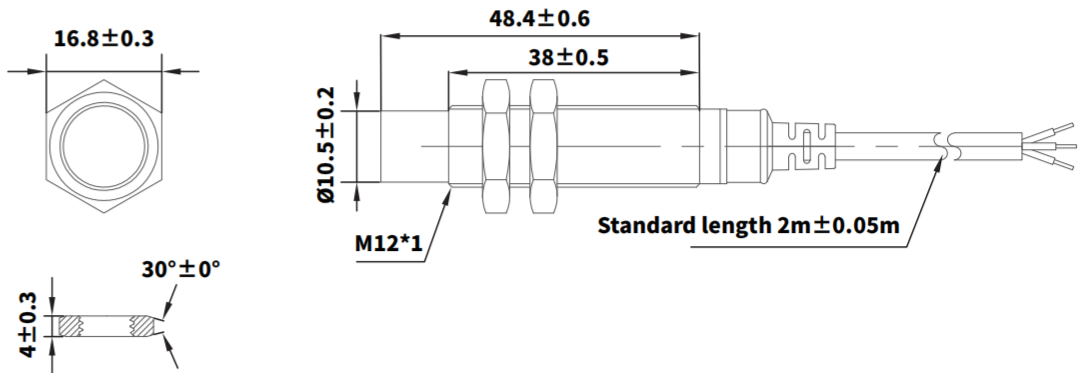
[HSJ-M8 KN]



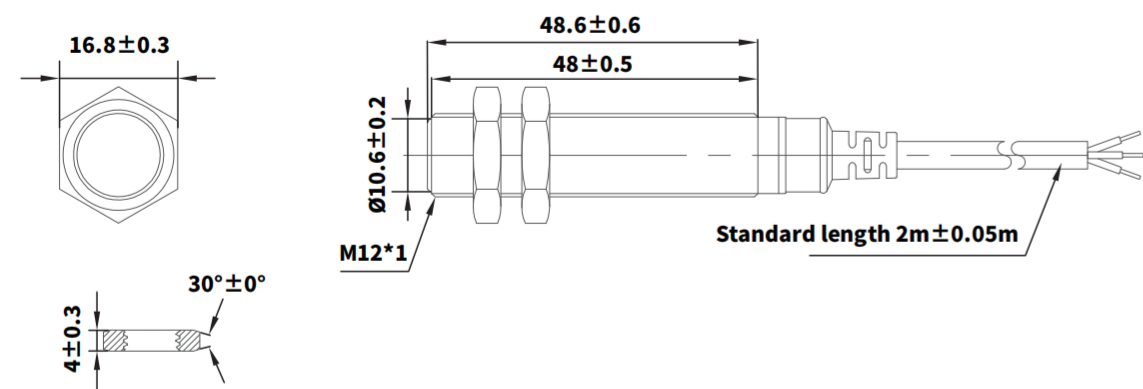
[HSJ-M8 KS]



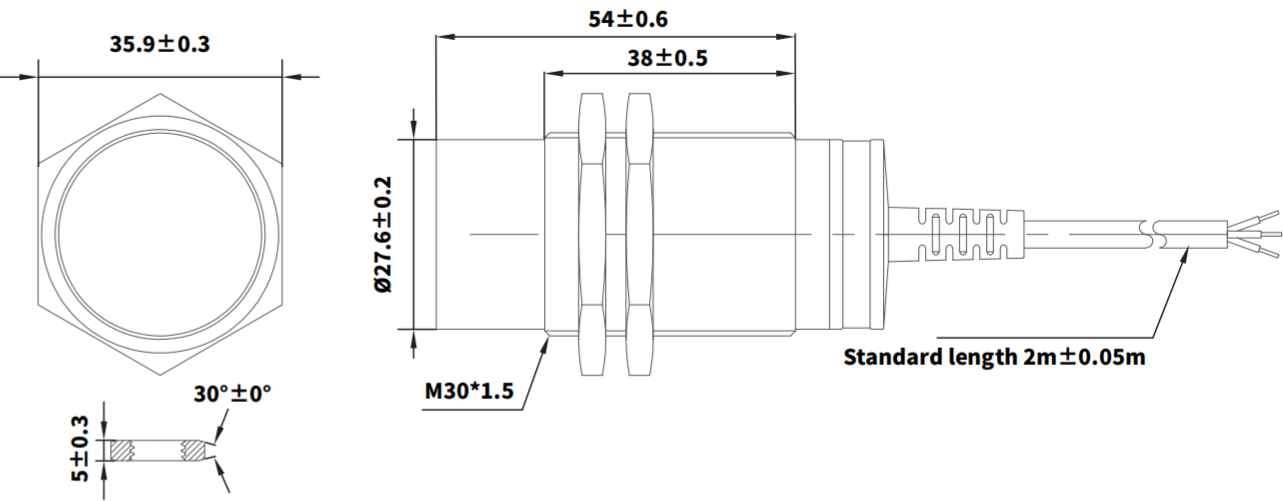
[HSJ-M12 KN]



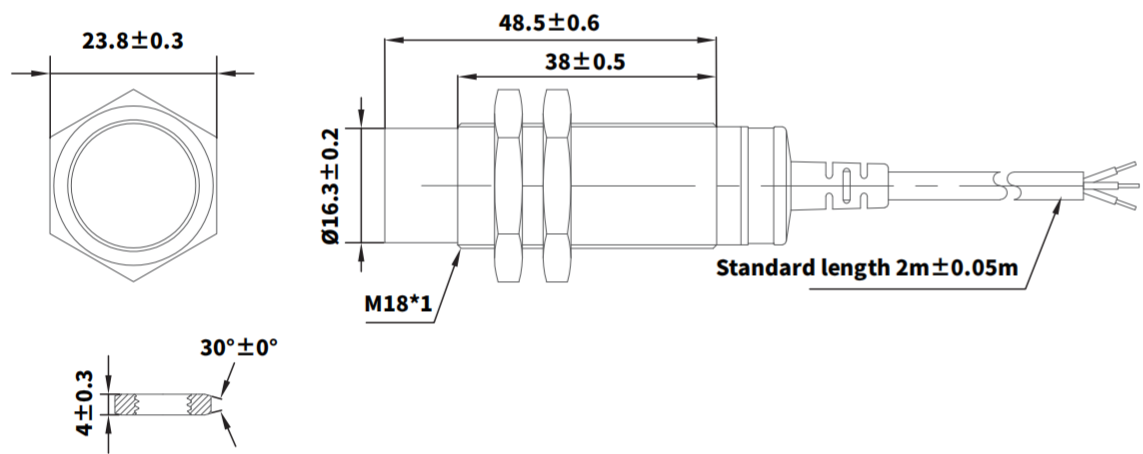
[HSJ-M12 KS]



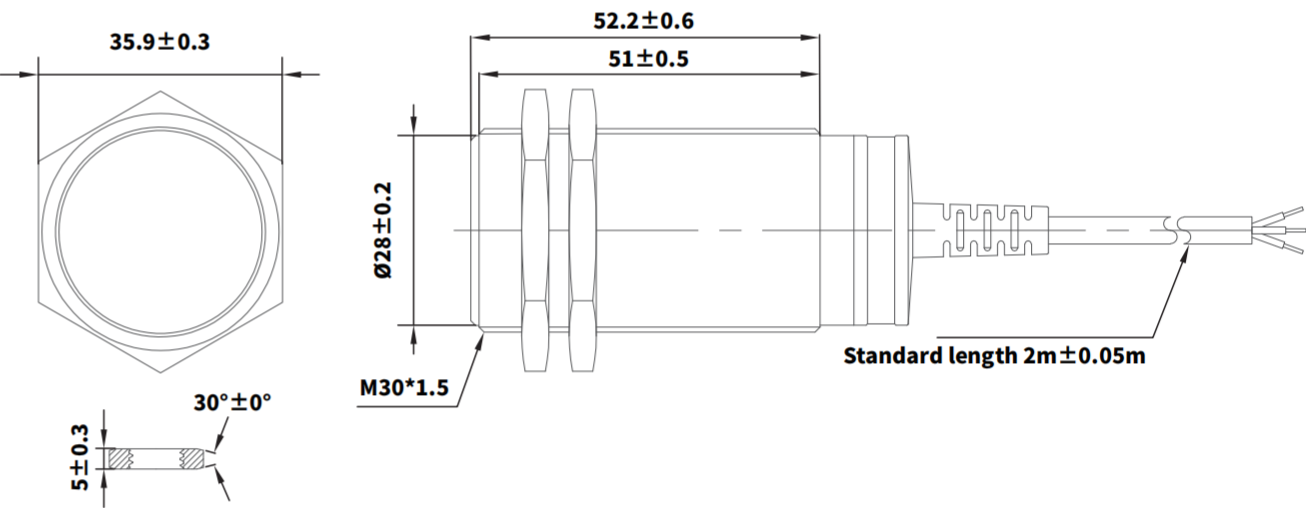
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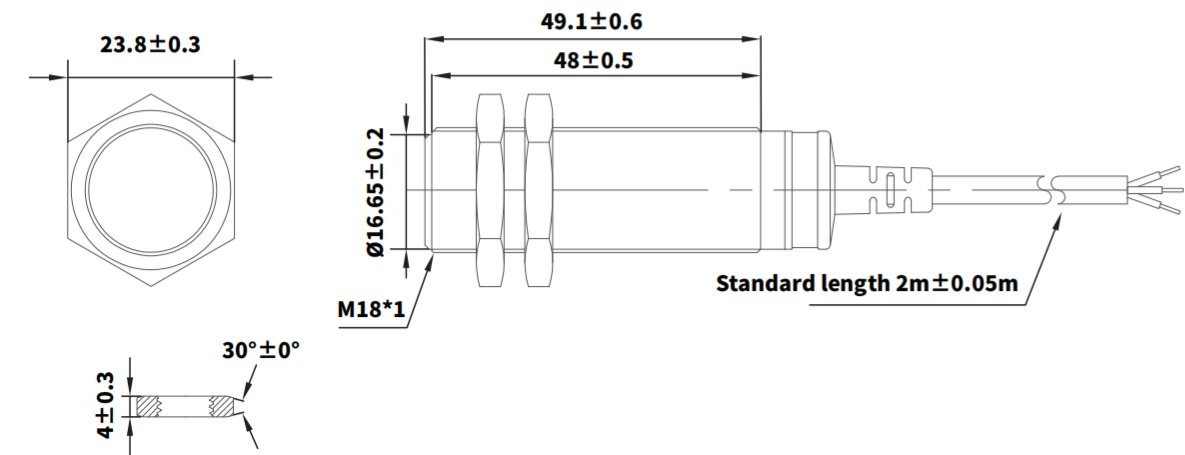
[HSJ-M18 KN]



[HSJ-M30 KS]



[HSJ-M18 KS]



Wiring diagram

Output format	NPN open collector output		PNP open collector output	
Model	HSJ-□□□□□ N		HSJ-□□□□□ P	
Output circuit				
Output format	DC two-wire output		AC two-wire output	
Model	HSJ-□□□□□ D		HSJ-□□□□□ A	
Output circuit				
Note: The load can be connected to both the +V side and the 0V side.				

MEMO

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