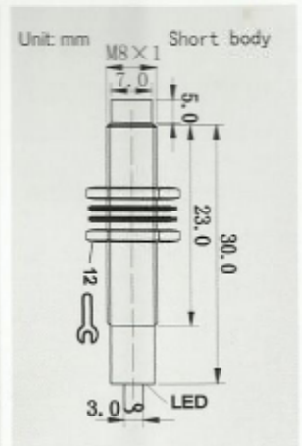
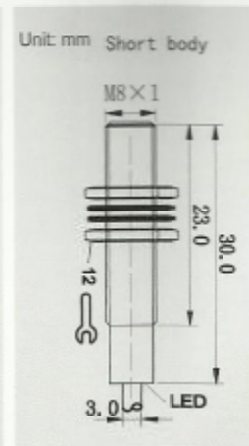
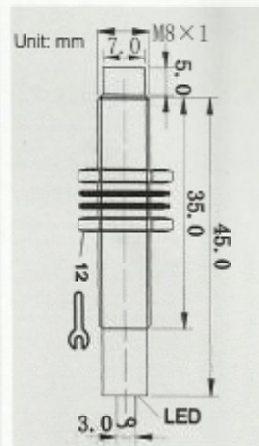
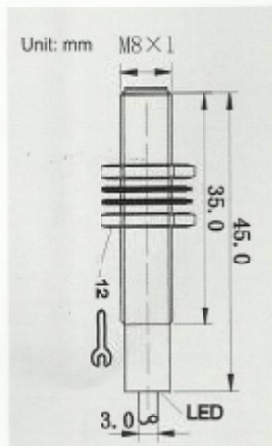


PNP	DC 3 wires	NO NC	IPSI/L-12PO2B IPSI/L-12PC2B	IPSI/L-12PO4B IPSI/L-12PC4B	IPSI/L-12PO2A-S IPSI/L-12PC2A-S	IPSI/L-12PO4A-S IPSI/L-12PC4A-S
	DC 4 wires	NO+NC	IPSI/L-12POC2B	IPSI/L-12POC4B	IPSI/L-12POC2A-S	IPSI/L-12POC4A-S
NPN	DC 3 wires	NO NC	IPSI/L-12NO2B IPSI/L-12NC2B	IPSI/L-12NO4B IPSI/L-12NC4B	IPSI/L-12NO2A-S IPSI/L-12NC2A-S	IPSI/L-12NO4A-S IPSI/L-12NC4A-S
	DC 4 wires	NO+NC	IPSI/L-12NOC2B	IPSI/L-12NOC4B	IPSI/L-12NOC2A-S	IPSI/L-12NOC4A-S
DC 2 wires	NO NC		IPSI/L-12DO2B IPSI/L-12DC2B	IPSI/L-12DO4B IPSI/L-12DC4B		
	AC 2 wires	NO NC	IPSI/L-12AO2C IPSI/L-12AC2C	IPSI/L-12AO4C IPSI/L-12AC4C		
Rated operational voltage(DC/AC)			24V DC/220V AC	24V DC/220V AC	24V DC	24V DC
Supply voltage(DC/AC)			10-30V DC/90-250V AC	10-30V DC/90-250V AC	10-30V DC	10-30V DC
Voltage drop			≤ 2.0V	≤ 2.0 V	≤ 2.0 V	≤ 2.0 V
Rated insulation voltage			≥20M Ω	≥20M Ω	≥20M Ω	≥20M Ω
Load current capacity(DC/AC)			200mA/300mA	200mA/300mA	100mA	100mA
Off-state current (NPN/PNP)			≤ 10 mA	≤ 10 mA	≤ 15 mA	≤ 15 mA
Leak current			≤ 20 μA	≤ 20 μA	≤ 20 μA	≤ 20μA
Against polarity reversal			YES	YES	YES	YES
Short circuit protected			3 wires :YES / 2 wires:NO	3 wires :YES / 2 wires:NO	YES	YES
Load capacity			≤ 1 μF	≤ 1 μF	≤ 1 μF	≤ 1 μF
Repeated accuracy			≤ 5%	≤ 5%	≤ 5%	≤ 5%
Ambient temperature range			-15...+60 °C	-15...+60 °C	-15...+60 °C	-15...+60 °C
Frequency (DC 3/2 wires/ AC 2 wires)			800Hz/400Hz/25Hz	800Hz/400Hz/25Hz	800Hz/400Hz	800Hz/400Hz
Function indication			Red LED Indicator	Red LED Indicator	Red LED Indicator	Red LED Indicator
IP ratings			IP67	IP67	IP67	IP67
Housing material			Nickle plated brass	Nickle plated brass	Nickle plated brass	Nickle plated brass
Material of sensing face			ABS	ABS	ABS	ABS
Connection			Connector	Connector	Connector	Connector
No. of wires × gauge						
Standard length of cable			2m	2m	2m	2m
Plug-in connector			C12-I/L-F-3/4-A/B	C12-I/L-F-3/4-A/B	C12-I/L-F-3/4-A/B	C12-I/L-F-3/4-A/B
Approvals			CE	CE	CE	CE

<b>Dimension</b>	<b>M8×1</b>	<b>M8×1</b>	<b>M8×1</b>	<b>M8×1</b>
<b>Installation</b>	<b>Flush (shielded)</b>	<b>Non-Flush (unshielded)</b>	<b>Flush (shielded)</b>	<b>Non-Flush (unshielded)</b>
<b>Mounting distance <math>S_n</math></b>	<b>1.0mm</b>	<b>2.0mm</b>	<b>1.0mm</b>	<b>2.0mm</b>
<b>Detect distance <math>S_a</math></b>	<b>0...0.9mm</b>	<b>0...1.8mm</b>	<b>0...0.9mm</b>	<b>0...1.8mm</b>



DC 3 wires	NO	IPS-8PO1B	IPS-8PO2B	IPS-8PO1A-S	IPS-8PO2A-S
	NC	IPS-8PC1B	IPS-8PC2B	IPS-8PC1A-S	IPS-8PC2A-S

NPN DC 3 wires	NO	IPS-8NO1B	IPS-8NO2B	IPS-8NO1A-S	IPS-8NO2A-S
	NC	IPS-8NC1B	IPS-8NC2B	IPS-8NC1A-S	IPS-8NC2A-S

DC 2 wires	NO	IPS-8DO1B	IPS-8DO2B		
	NC	IPS-8DC1B	IPS-8DC2B		

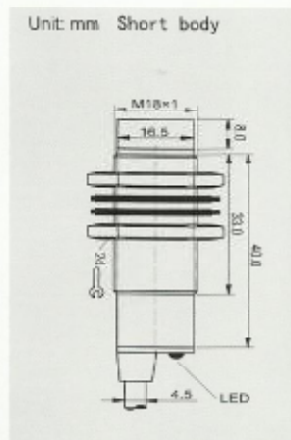
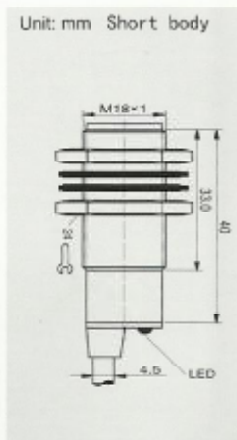
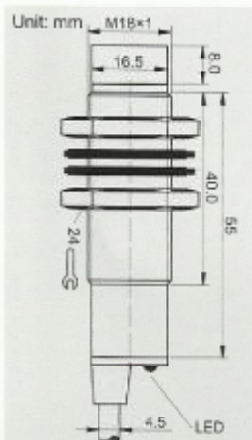
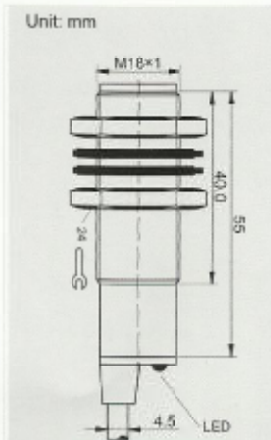
Rated operational voltage	24 V DC	24 V DC	24 V DC	24 V DC
Supply voltage	10...30 V DC	10...30 V DC	10...30 V DC	10...30 V DC
Voltage drop	≤ 2 V	≤ 2 V	≤ 2 V	≤ 2 V
Rated insulation voltage	≥ 20MΩ	≥ 20MΩ	≥ 20MΩ	≥ 20MΩ
Load current capacity	200 mA	200 mA	100 mA	100 mA
Off-state current (NPN/PNP)	≤ 11 mA	≤ 11 mA	≤ 11 mA	≤ 10 mA
Leak current	≤ 20 μA	≤ 20 μA	≤ 20 μA	≤ 20 μA
Against polarity reversal	YES	YES	YES	YES
Short circuit protected	YES	YES	YES	YES
Load capacity	≤ 0.5 μF	≤ 0.5 μF	≤ 0.5 μF	≤ 0.5 μF

Repeated accuracy	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Ambient temperature range	-15...+60°C	-15...+60°C	-15...+60°C	-15...+60°C
Operating frequency	1.5K~2K Hz	1.5K~2K Hz	1.5K~2K Hz	1.5K~2K Hz
Function indication	Red LED Indicator	Red LED Indicator	Red LED Indicator	Red LED Indicator

IP ratings	IP67	IP67	IP67	IP67
Housing material	Nickle plated brass	Nickle plated brass	Nickle plated brass	Nickle plated brass
Material of sensing face	ABS	ABS	ABS	ABS
Connection	Wires	Wires	Wires	Wires
No. of wires × gauge	9×0.15mm	9×0.15mm	9×0.15mm	9×0.15mm
Standard length of cable	2m	2m	2m	2m
Plug-in connector	/	/	/	/
Approvals	CE	CE	CE	CE

1. For connection drawing, please refer to instruction manual.
2. Cable and housing of sensor can be special ordered.
3. DC5V or AC 24~250V can be special ordered.

ension	M18×1	M18×1	M18×1	M18×1
Installation	Flush (shielded)	Non-Flush (unshielded)	Flush (shielded)	Non-Flush (unshielded)
ounting distance Sn	5.0mm	8.0mm	5.0mm	8.0mm
tection distance Sa	0...4.5mm	0...6.4mm	0...4.5mm	0...6.4mm



PNP	DC 3 wires	NO	IPS-18PO5B	IPS-18PO8B	IPS-18PO5B-S	IPS-18PO8B-S
		NC	IPS-18PC5B	IPS-18PC8B	IPS-18PC5B-S	IPS-18PC8B-S
	DC 4 wires	NO+NC	IPS-18POC5B	IPS-18POC8B	IPS-18POC5B-S	IPS-18POC8B-S
NPN	DC 3 wires	NO	IPS-18NO5B	IPS-18NO8B	IPS-18NO5B-S	IPS-18NO8B-S
		NC	IPS-18NC5B	IPS-18NC8B	IPS-18NC5B-S	IPS-18NC8B-S
	DC 4 wires	NO+NC	IPS-18NOC5B	IPS-18NOC8B	IPS-18NOC5B-S	IPS-18NOC8B-S
	DC 2 wires	NO	IPS-18DO5B	IPS-18DO8B		
		NC	IPS-18DC5B	IPS-18DC8B		
	AC 2 wires	NO	IPS-18AC5C	IPS-18AO8C		
		NC	IPS-18AC5C	IPS-18AC8C		
Rated operational voltage(DC/AC)	24V DC/220V AC		24V DC/220V AC		24V DC	24V DC
Apply voltage(DC/AC)	10-30V DC/90-250V AC		10-30V DC/90-250V AC		10-30V DC	10-30V DC
Voltage drop	≤2 V		≤2 V		≤2 V	≤2 V
Rated insulation voltage	≥20M Ω		≥20M Ω		≥20M Ω	≥20M Ω
Load current capacity(DC/AC)	200mA/300mA		200mA/300mA		200mA	200mA
Reverse current (NPN/PNP)	≤11 mA		≤11 mA		≤11 mA	≤10 mA
Leak current	≤20 μA		≤20 μA		≤20 μA	≤20 μA
Resistant polarity reversal	YES		YES		YES	YES
Short circuit protected	YES		YES		YES	YES
Load capacity	≤0.5 μF		≤0.5 μF		≤0.5 μF	≤0.5 μF
Repeatability accuracy	≤5%		≤5%		≤5%	≤5%
Ambient temperature range	-15...+60 °C		-15...+60 °C		-15...+60 °C	-15...+60 °C
Frequency (DC 3/2 wires/ AC 2 wires)	700Hz/400Hz/25Hz		700Hz/400Hz/25Hz		700Hz/400Hz	700Hz/400Hz/
Position indication	Red LED Indicator		Red LED Indicator		Red LED Indicator	Red LED Indicator
Protection ratings	IP67		IP67		IP67	IP67
Mounting material	Nickel plated brass		Nickel plated brass		Nickel plated brass	Nickel plated brass
Material of sensing face	ABS		ABS		ABS	ABS
Connection	Wires		Wires		Wires	Wires
No. of wires × gauge	16×0.15mm		16×0.15mm		16×0.15mm	16×0.15mm
Standard length of cable	2m		2m		2m	2m
Plug-in connector	/		/		/	/
Approvals	CE		CE		CE	CE

For connection drawing, please refer to instruction manual.  
 Cable and housing of proximity sensor can be special ordered.  
 C 24~250V can be special ordered.