

Yi LiNG


DONGGUAN CITY YILING ELECTRONIC TECHNOLOGY CO., LTD





Inductive proximity switch

METAL CYLINDRICAL

- Unique design of power indicator green light and action indicator red light.
 - Standard sensing distance, extended sensing distance optional.
 - ASIC has stable and reliable performance.
 - Fast response, high switching frequency, small tape.
 - Strong anti-electromagnetic interference ability.
 - Patented product intelligent three-wire NPN+PNP output.
 - The switch is fully resin-filled, shock-resistant and drop-resistant.
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METAL CYLINDRICAL

Proximity Switch Series Guide

M30/MT30 series



30mm diameter round

- Sensing distance 10, 15, 20mm optional
- Copper pipe length full thread 35mm, 55mm optional
- Embedded or non-embedded installation, with optional mounting bracket

M18/MT18 series



18mm diameter round

- Sensing distance 5, 8, 10, 12 optional
- Copper pipe length full thread 35mm, 40mm optional

M12/MT12 series



12mm diameter round

- Sensing distance 2, 4, 6, mm optional
- Copper pipe length full thread 35mm, 45mm optional

M08/MT08 series



8mm diameter round

- Sensing distance 1.5, 2, 3, 4mm optional
- Copper tube length full thread 25mm, 35mm, 40mm optional

M05/MT05 series



5mm diameter round

- Sensing distance 1, 1.5mm optional
- Sensing distance 1, 1.5mm optional

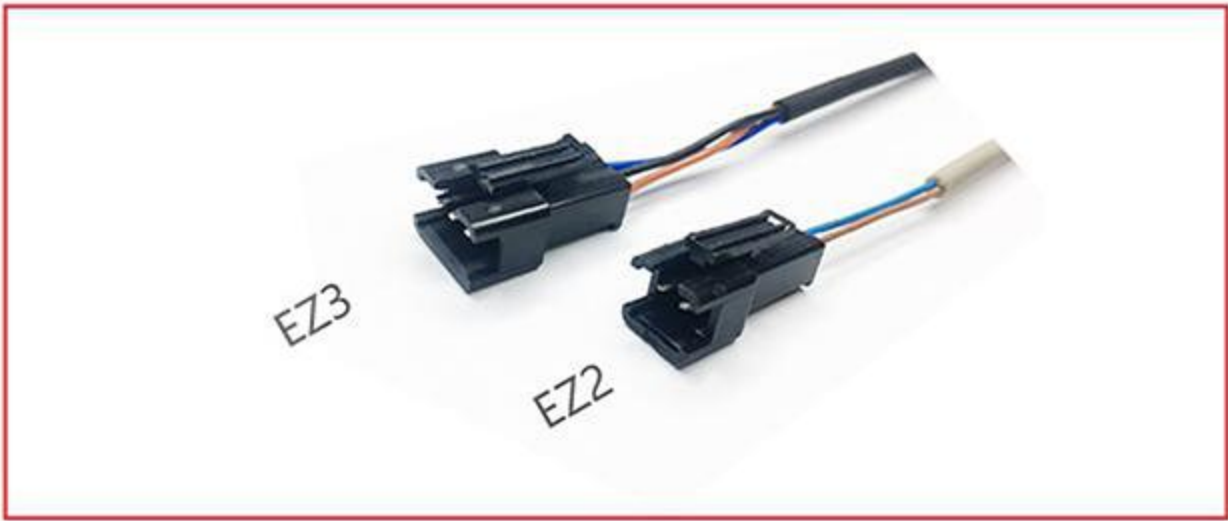
METAL CYLINDRICAL

Proximity switch wiring selection

1 straight out



2 Online EZ Head



3 online plug



4 straight plug



ENCODING RULES

Proximity switch code description

① ② ③ ④ ⑤ ⑥ ⑦ ⑧
□ M 3 0 N 1 5 □ - 0 2 - □ □

1 product type

Empty: Inductive proximity switch
L: photoelectric switch
C: Capacitive proximity switch
M: Magnetic induction proximity switch
D: economical switch

2 material and shape

M: Metal round tube type
S: Plastic case type
MT: Metal Round Tube Buried Type
ST: plastic shell embedded type

3 Switch size

05: The outer diameter is 5mm (08/10/12/17/18)
30: The outer diameter is 30mm
H: SM groove magnetic switch
G: AirTAC grooved magnetic switch
E: FESTO grooved magnetic switch
M: Round cylinder magnetic switch

4 Switch output form

N: DC NPN output type
P: DC PNP output type
D: DC two-wire type
S: Intelligent DC three-wire NPN+PNP automatic output type
A: AC two-wire t

5 Sensing distance

Empty: Magnetic switch
01: 1mm

6 switch logic

empty: normally open
C: normally closed

7 line length

Empty: Quick connector type
01: 1m
02: 2m

8 Distinguishing code

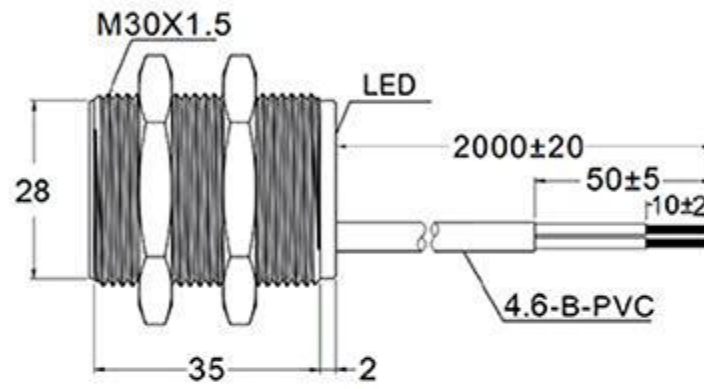
Distinguish customization and special request coding

PRODUCT PARAMETERS

MT30/M30 series proximity switch

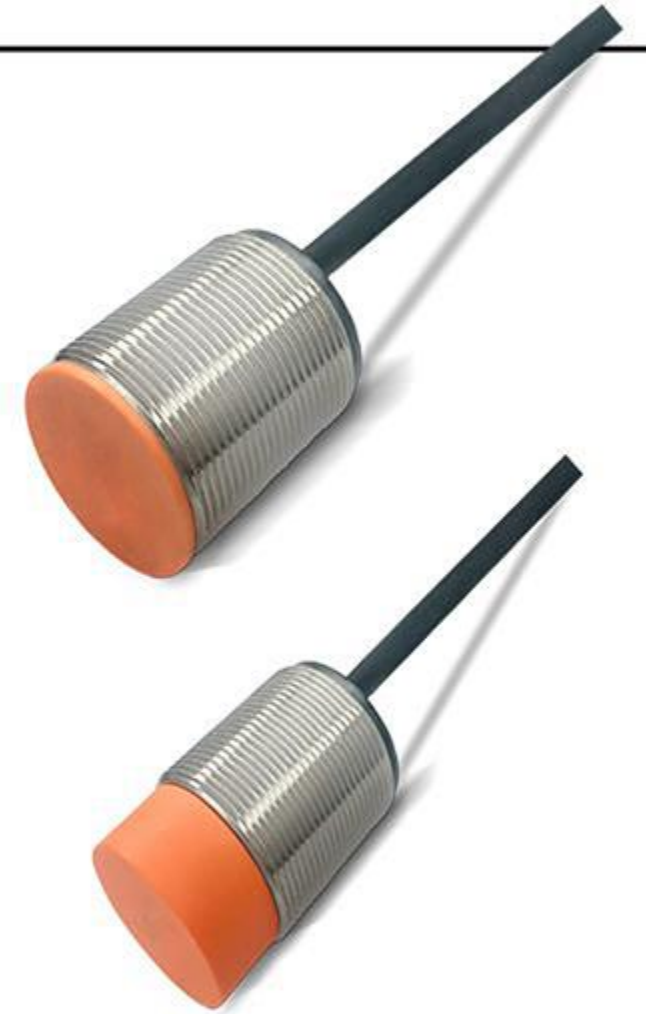
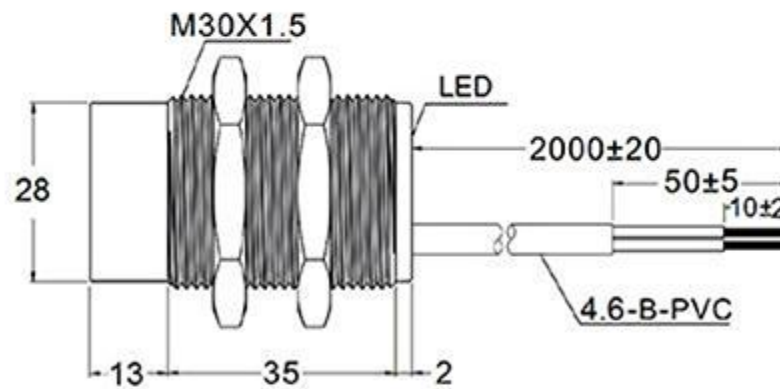
MT30 □ 10-02

Dimensions



M30 □ 15-02

Dimensions



Specifications of MT30/M30 series inductive proximity switches

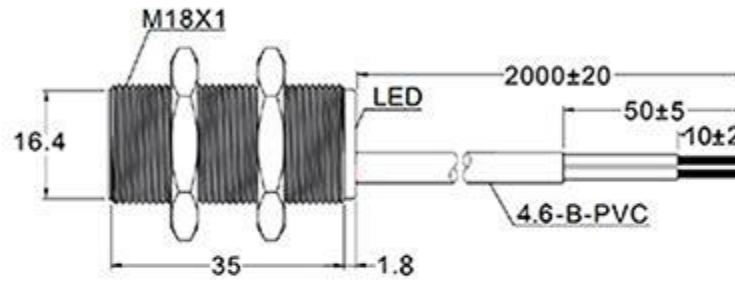
output method	N: NPN DC three-wire type	P: PNP DC three-wire type	S: NPN/PNP DC three-wire type	D: DC two-wire type
Installation method	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded
Detection distance	10mm/15mm/20mm	10mm/15mm/20mm	10mm/15mm/20mm	10mm/15mm/20mm
Standard test substance	30×30×1mm ³ St37 steel	30×30×1mm ³ St37 steel	30×30×1mm ³ St37 steel	30×30×1mm ³ St37 steel
voltage	8~30V DC	8~30V DC	8~30V DC	10~30V DC
current consumption	≤10mA	≤10mA	≤10mA	≤0.5mA
Output current	≤200mA	≤200mA	≤100mA	≤100mA
leakage current	≤0.01mA	≤0.01mA	≤0.01mA	≤0.5mA
output voltage drop	≤1.5V	≤1.5V	≤1.5V	≤5.5V
Switch point offset	<±10%	<±10%	<±10%	<±10%
Repeatability	<1%	<1%	<1%	<1%
operating frequency	≤200Hz	≤200Hz	≤200Hz	≤200Hz
indicator light	Power green, output red	Power green, output red	N output: red, P output: yellow	output red
ambient temperature	-20~+80°C	-20~+80°C	-20~+80°C	-20~+80°C
Shell material	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating
Wiring	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug
circuit protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Surge Protection
Protection class	IP67	IP67	IP67	IP67
Wiring diagram	<p>NPN wiring diagram</p>	<p>PNP wiring diagram</p>	<p>NPN/PNP wiring diagram</p>	<p>D wiring diagram</p>

PRODUCT PARAMETERS

MT18/M18 series proximity switch

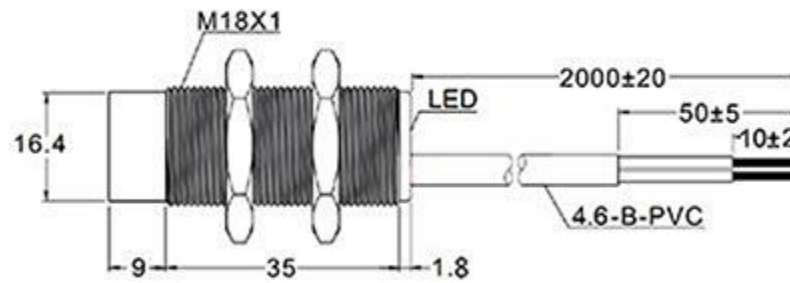
MT18 □ 05-02

Dimensions



M18 □ 08-02

Dimensions



Specifications of MT18/M18 series inductive proximity switches

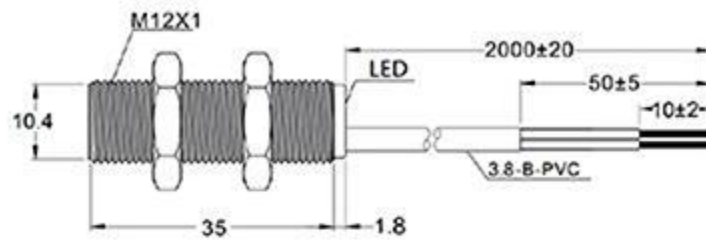
output method	N: NPN DC three-wire type	P: PNP DC three-wire type	S: NPN/PNP DC three-wire type	D: DC two-wire type
Installation method	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded
Detection distance	5mm/8mm/10mm/12mm	5mm/8mm/10mm/12mm	5mm/8mm/10mm/12mm	5mm/8mm/10mm/12mm
Standard test substance	18×18×1mm ³ St37 steel	18×18×1mm ³ St37 steel	18×18×1mm ³ St37 steel	18×18×1mm ³ St37 steel
voltage	8~30V DC	8~30V DC	8~30V DC	10~30V DC
current consumption	≤10mA	≤10mA	≤10mA	≤0.5mA
Output current	≤200mA	≤200mA	≤100mA	≤100mA
leakage current	≤0.01mA	≤0.01mA	≤0.01mA	≤0.5mA
output voltage drop	≤1.5V	≤1.5V	≤1.5V	≤5.5V
Switch point offset	<±10%	<±10%	<±10%	<±10%
Repeatability	<1%	<1%	<1%	<1%
operating frequency	≤500Hz	≤500Hz	≤500Hz	≤500Hz
indicator light	Power green, output red	Power green, output red	N output: red, P output: yellow	output red
ambient temperature	-20~+80°C	-20~+80°C	-20~+80°C	-20~+80°C
Shell material	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating
Wiring	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug
circuit protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Surge Protection
Protection class	IP67	IP67	IP67	IP67
Wiring diagram	<p>NPN wiring diagram</p>	<p>PNP wiring diagram</p>	<p>NPN/PNP wiring diagram</p>	<p>D wiring diagram</p>

PRODUCT PARAMETERS

MT12/M12 series proximity switch

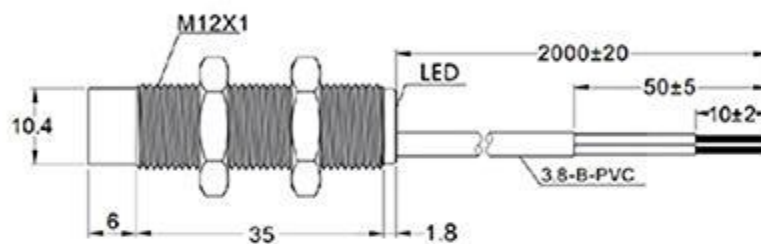
MT12 □ 02-02

Dimensions



M12 □ 06-02

Dimensions



Specifications of MT12/M12 series inductive proximity switches

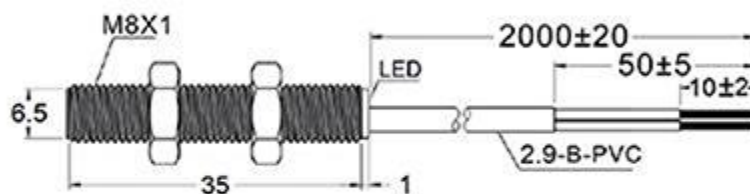
output method	N: NPN DC three-wire type	P: PNP DC three-wire type	S: NPN/PNP DC three-wire type	D: DC two-wire type
Installation method	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded
Detection distance	2mm/4mm/6mm/8mm	2mm/4mm/6mm/8mm	2mm/4mm/6mm/8mm	2mm/4mm/6mm/8mm
Standard test substance	12×12×1mm ³ St37 steel	12×12×1mm ³ St37 steel	12×12×1mm ³ St37 steel	12×12×1mm ³ St37 steel
voltage	8~30V DC	8~30V DC	8~30V DC	10~30V DC
current consumption	≤10mA	≤10mA	≤10mA	≤0.5mA
Output current	≤200mA	≤200mA	≤100mA	≤100mA
leakage current	≤0.01mA	≤0.01mA	≤0.01mA	≤0.5mA
output voltage drop	≤1.5V	≤1.5V	≤1.5V	≤5.5V
Switch point offset	<±10%	<±10%	<±10%	<±10%
Repeatability	<1%	<1%	<1%	<1%
operating frequency	≤1000Hz	≤1000Hz	≤1000Hz	≤1000Hz
indicator light	Power green, output red	Power green, output red	N output: red, P output: yellow	output red
ambient temperature	-20~+80°C	-20~+80°C	-20~+80°C	-20~+80°C
Shell material	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating
Wiring	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug
circuit protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Surge Protection
Protection class	IP67	IP67	IP67	IP67
Wiring diagram	<p>NPN wiring diagram</p>	<p>PNP wiring diagram</p>	<p>NPN/PNP wiring diagram</p>	<p>D wiring diagram</p>

PRODUCT PARAMETERS

MT08/M08 series proximity switch

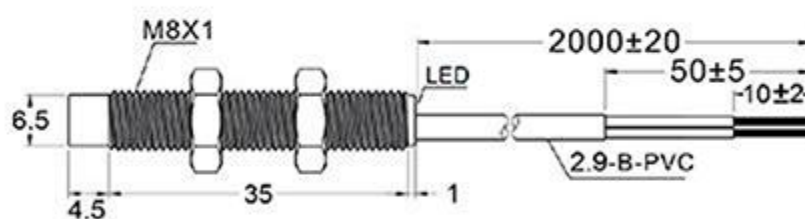
MT08 □ 02-02

Dimensions



M08 □ 03-02

Dimensions



Specifications of MT08/M08 series inductive proximity switches

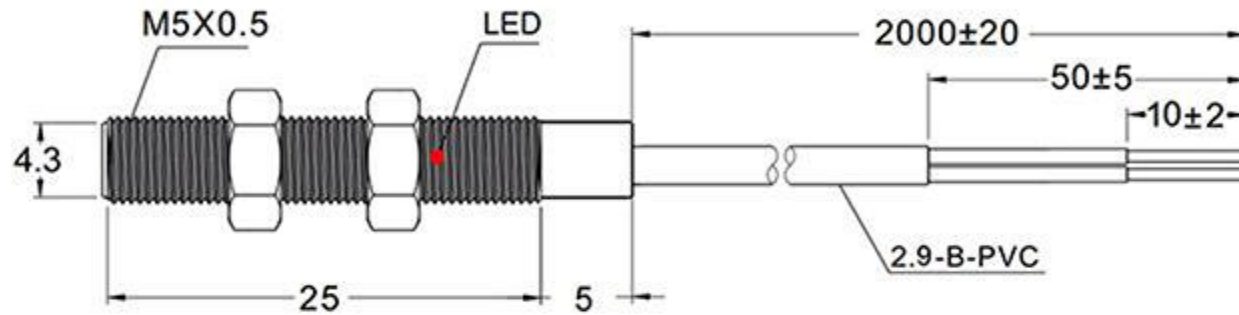
output method	N: NPN DC three-wire type	P: PNP DC three-wire type	S: NPN/PNP DC three-wire type	D: DC two-wire type
Installation method	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded	M non-embedded, MT embedded
Detection distance	1.5mm/2mm/3mm/4mm	1.5mm/2mm/3mm/4mm	1.5mm/2mm/3mm/4mm	1.5mm/2mm/3mm/4mm
Standard test substance	8×8×1mm ³ St37 steel	8×8×1mm ³ St37 steel	8×8×1mm ³ St37 steel	8×8×1mm ³ St37 steel
voltage	8~30V DC	8~30V DC	8~30V DC	10~30V DC
current consumption	≤10mA	≤10mA	≤10mA	≤0.5mA
Output current	≤200mA	≤200mA	≤100mA	≤100mA
leakage current	≤0.01mA	≤0.01mA	≤0.01mA	≤0.5mA
output voltage drop	≤1.5V	≤1.5V	≤1.5V	≤5.5V
Switch point offset	<±10%	<±10%	<±10%	<±10%
Repeatability	<1%	<1%	<1%	<1%
operating frequency	≤1000Hz	≤1000Hz	≤1000Hz	≤1000Hz
indicator light	Power green, output red	Power green, output red	N output: red, P output: yellow	output red
ambient temperature	-20~+80°C	-20~+80°C	-20~+80°C	-20~+80°C
Shell material	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating
Wiring	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug
circuit protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Surge Protection
Protection class	IP67	IP67	IP67	IP67
Wiring diagram	<p>NPN wiring diagram</p>	<p>PNP wiring diagram</p>	<p>NPN/PNP wiring diagram</p>	<p>D wiring diagram</p>

PRODUCT PARAMETERS

MT05 series proximity switch

MT05 □ 01-02

Dimensions



Specifications of MT05 series inductive proximity switch

output method	N: NPN DC three-wire type	P: PNP DC three-wire type	S: NPN/PNP DC three-wire type	D: DC two-wire type
Installation method	MT embedded	MT embedded	MT embedded	MT embedded
Detection distance	1mm/1.5mm	1mm/1.5mm	1mm/1.5mm	1mm/1.5mm
Standard test substance	5×5×1mm ³ St37 steel	5×5×1mm ³ St37 steel	5×5×1mm ³ St37 steel	5×5×1mm ³ St37 steel
voltage	8~30V DC	8~30V DC	8~30V DC	10~30V DC
current consumption	≤10mA	≤10mA	≤10mA	≤0.5mA
Output current	≤200mA	≤200mA	≤100mA	≤100mA
leakage current	≤0.01mA	≤0.01mA	≤0.01mA	≤0.5mA
output voltage drop	≤1.5V	≤1.5V	≤1.5V	≤5.5V
Switch point offset	<±10%	<±10%	<±10%	<±10%
Repeatability	<1%	<1%	<1%	<1%
operating frequency	≤1000Hz	≤1000Hz	≤1000Hz	≤1000Hz
indicator light	Power green, output red	Power green, output red	N output: red, P output: yellow	output red
ambient temperature	-20~+80°C	-20~+80°C	-20~+80°C	-20~+80°C
Shell material	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating	PBT + copper nickel plating
Wiring	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug	Plug/Cable/Inline Plug/Inline EZ Plug
circuit protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Short Circuit, Overload, Surge Protection	Polarity, Surge Protection
Protection class	IP67	IP67	IP67	IP67
Wiring diagram	<p>NPN wiring diagram</p>	<p>PNP wiring diagram</p>	<p>NPN/PNP wiring diagram</p>	<p>D wiring diagram</p>

Dongguan city YiLing electronic technology co., LTD

Contact: 134-1679-4025 Mr. Yang

Q Q: 380954844

Email: 380954844@qq.com

Factory address: 3rd Floor, Building B, Xinrui Zhichuang Industrial Park,
Zhoutou North Road, Shijie Town, Dongguan City

Sales Center: No. 1D020, SEG Electronics Market, Gangbei Community,
Dongcheng District, Dongguan City

Website: www.dgylsensor.com



Wechat QR code