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If the product picture does not match the actual product,Please refer to the actual product. If you need more information, please contact our marketing department.

OMCH® 沪工

HUGONG
AUTOMATION TECHNOLOGY CO. ,LTD.

Proximity Sensor R&D, Manufacturing and Solution Provider

2024 Rev.

Product selection manual

OMCH® CE RoHS

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Product selection manual in electronic version

Company profile

Hugong Automation Technology Co., Ltd. (referred to as Hugong Company) is the manufacturer of electricity in China industrial automation, and the major enterprise in high-tech industrial control automation electricity which involves in research and development, production, trade, information, service and other functions.

Hugong Company specializes in the production and selling of proximity sensors, photoelectric sensors, laser sensors, color mark sensors, optical coupler sensors, light curtain sensors, fiber amplifiers, capacitive sensors, hall sensors, displacement sensors, magnetic switches, switch mode power supplies, midget relays, solid-state Relays.

The products adopt the latest circuit design of integrated IC and single-chip microcomputer in separate. They have the functions of short circuit protection, polarity protection, electrical surge absorption and anti-interference. There are 30 categories, more than 200 series, and over 3000 specifications. Hugong Company has authorized distributors across the country.

The products of Hugong Company are the most important automatic detection and control elements in the automation control system, and are widely used in machinery, chemicals, textiles, tobacco, printing, plastics, food, beer, mine, metallurgy, railway, elevator and other industrial control automation industries. The products meet the international standards of IEC and national standards of GB/T 14048.10, and have passed CCC, CE, ROHS, test reports and other certifications. It has obtained a number of patented products. The products sell well in major cities across the country, and are also exported to the Middle East, Southeast Asia, Europe, the United States and other countries, the quality is deeply trusted by customers.

Hugong Company has gathered a number of senior engineers and professional technicians, with independent innovation, research and development ability. The company has advanced production equipment, such as SMT automatic chip mounters, automatic compound appliers, and dynamic aging machine, and well-established professional production technology, multi-functional production lines, dynamic aging testing equipment and filed simulation experiment. Hugong Company has a group of senior managers and high -quality employee teams, who have integrated into the company and strictly abide by the ISO9001 quality management system standard and 6S on -site management standards.

Hugong Company takes “quality is the first, customer is the uppermost" as its principal, through unremitting scientific and technological innovation and scientific management, expecting to work with old and new customers to develop and create glory future!

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The Introduction of Photoelectric Sensor Models

□ LJ □ 12 A3 – 4 – Z / BX – G

- □: No Letter s: Standard Type; A: High Performance; H: Water–Proof; L: Long Distance; G: Heat–Resistant
- LJ: Cylindrical Proximity Sensor
- □: No Letters:Inductive Type; C: Capacitive Type
- 12: Outside Diameter — 4:4mm; 5:5mm; 6:6mm; 8:8mm; 12:12mm; 18:18mm; 24:24mm; 30:30mm
- A3: Metal Shell; A4: Plastic Shell; A: Polish Rod
- 4: Distance Detection — 1:1mm; 2:2mm; 4:4mm; 5:5mm; 8:8mm; 10:10mm; 15:15mm; 20:20mm; 25:25mm
- Z: DC Type; J: AC Type (90–250V)
- BX: Output Methods and Status — BX/N1: NPN–NO(Three–Wire); AX/N2: NPN–NC(Three–Wire); CX/N3: NPN–NO+NC(Four–Wire); BY/P1: PNP–NO(Three–Wire); AY/P2: PNP–NC(Three–Wire); CY/P3: PNP–NO+NC(Four–Wire); EX/D1: DC–NO(Two–Wire); DX/D2: DC–NC(Two–Wire); EZ/A1: AC–NO(Two–Wire); DZ/A2: AC–NC(Two–Wire); EDZ/A3: AC–NO+NC(Three–Wire or Four–Wire)
- G/T: Connector Type

□ TL – Q5 MC1

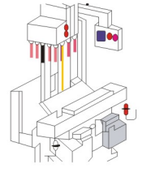
- □: A: High Performance Type; No Letters : Standard Type
- TL: Edge–Square Proximity Sensor
- Q5: Outside Size and Distance Detection — Q5: Size 17 × 17 × 28mm, Distance Detection: 5mm; N5: Size 25*25*38mm, Distance Detection: 5mm; N8: Size 25*25*38mm, Distance Detection: 8mm; N10: Size 30 × 30 × 52mm, Distance Detection: 10mm; N15: Size 35 × 35 × 52mm, Distance Detection: 15mm; N20: Size 40 × 40 × 52mm, Distance Detection: 20mm
- MC1: Output Methods and Status — MC1: NPN–NO (Three–Wire); MC2: NPN–NC(Three–Wire); MC3: NPN–NO+NC(Four–Wire); ME1: NPN–NO(Three–Wire); ME2: NPN–NC(Three–Wire); ME3: NPN–NO+NC(Four–Wire); MF1: PNP–NO(Three–Wire); MF2: PNP–NC(Three–Wire); MF3: PNP–NO+NC(Four–Wire); MN1: NPN–NO(Three–Wire); MN2: NPN–NC(Three–Wire); MN3: NPN–NO+NC(Four–Wire); MP1: PNP–NO(Three–Wire); MP2: PNP–NC(Three–Wire); MP3: PNP–NO+NC(Four–Wire); MD1: DC–NO(Two–Wire); MD2: DC–NC(Two–Wire); MY1: AC–NO(Two–Wire); MY2: AC–NC(Two–Wire); MA1: AC–NO(Two–Wire); MA2: AC–NC(Two–Wire)

□ SN 04 – N□

- □: A: High Performance Type; No Letters : Standard Type
- SN: Edge–Square Proximity Sensor — SN: Size 18 × 18 × 36mm; PL: Size 17 × 17 × 35mm; PS: Size 17 × 17 × 28mm
- 04: Distance Detection — 04:5mm; 05:5mm; 08:8mm
- N□: Output Methods and Status — N: NPN–NO(Three–Wire); N1: NPN–NO(Three–Wire); N2: NPN–NC(Three–Wire); N3: NPN–NO+NC(Four–Wire); P: PNP–NO(Three–Wire); P1: PNP–NO(Three–Wire); P2: PNP–NC(Three–Wire); P3: PNP–NO+NC(Four–Wire); D: DC–NO(Two–Wire); D1: DC–NO(Two–Wire); D2: DC–NC(Two–Wire); Y: AC–NO(Two–Wire); Y2: AC–NC(Two–Wire); A1: AC–NO(Two–Wire); A2: AC–NC(Two–Wire)

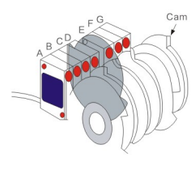
The Instance Diagrams of the Application of Proximity Sensors

01.Various Position detection in machine Work Center



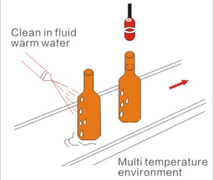
Cylindrical Proximity Sensors

02.Cam Detection when Moving



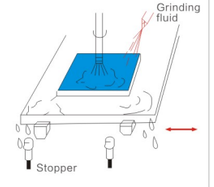
Oblate Proximity Sensors

03.Detection of Bottle Cap



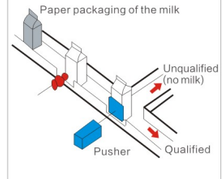
Water–Proof Proximity Sensors

04.Grinding Machine Stopper Detection



Water–Proof Proximity Sensors

05.Detection of the Existence of Milk in the Paper Packaging

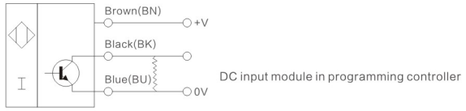


Capacitive Proximity Sensors

The Output Method and Electrical Characteristics of Proximity Sensors

● Proximity sensors /photoelectric sensors are connected with programmablecontroller

Can output in NPN type with DC three-wire system sensors

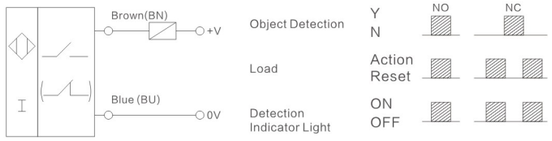


DC input module in programming controller

● DC Three-Wire System NO or NC

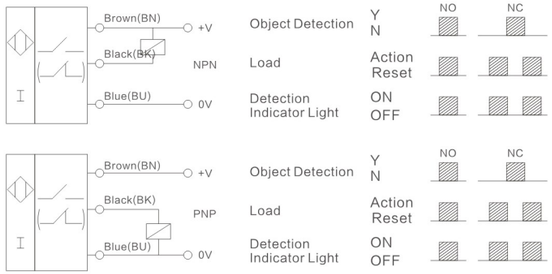
The load must be connected in series to operate within the sensor, and it has the protection functions of polarity and short circuit.

In open circuit status, there is small leakage of current. In closed circuit status, there is a relatively small loss of voltage in the elements of the switches.



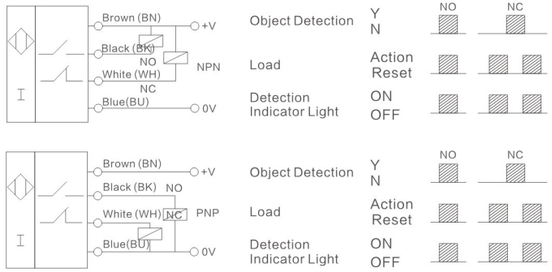
● DC Three-Wire System (N,P)NO or NC

The load and power supply of the switch are separately conneted, and it has theprotection functions of polarity, short circuit and overload. The residual currentcan be ignored.



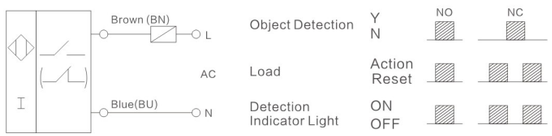
● DC Four-Wire System (N,P)NO+NC

These swithes can provide dual output with NO and NC



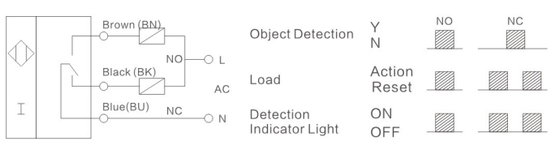
● AC Two-Wire System NO or NC

The load must be connected in series to operate within the sensor. In closed-circuit status, there is a relatively small loss of voltage in the elements of the swith



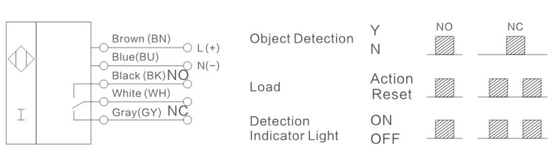
● AC Three-Wire System NO+NC

These switches can provide dual output with NO and NC



● AC, DC Five-Wire System(Relay Output)NO+NC

These switches can provide dual relay output with NO and NC



OMCH®

Cylindrical High Performance Proximity Switches

Introduction

Proximity switches are also called proximity sensors. Sensors are divided into inductive, capacitive, Hall, magnetic and analog, which can be used with PLC programmablecontroller, single chip microcomputer, NOT gate circuit, electronic counter, solid state relay, small relay and other products.

The inductive proximity sensor is composed of high-frequency oscillation, detection, amplification, triggering and output circuits. The oscillator generates an alternating electromagnetic field on the detection surface of the sensor. When a metal object approaches its detection surface, the eddy current generated in the metal absorbs the energy of the oscillator, weakening the vibration and even stopping it. The two states of oscillation and vibration stop of the oscillator are converted into electrical signals and converted into binary switching signals through the shaping amplifier, and then output after power amplification.

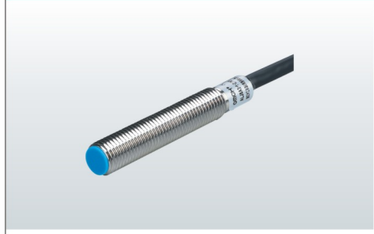
The capacitive proximity sensor is composed of a high-frequency oscillator and an amplifier. A capacitor is formed between the detection surface of the sensor and the ground,which participates in the work of the oscillating circuit, and is initially in a stopped vibration state. When the object approaches its detection surface, the capacitance of the loop changes,and the high-frequency oscillator oscillates. The two states of oscillation and vibration stop are changed into electrical signals which are converted into binary switching signals by the amplifier.

The Hall sensor is a proximity sensor with a built-in Hall integrated circuit. It uses the Hall effect to convert the presence or absence of magnetic signals into switching values. It is widely used in signal detection, automatic control, and safety protection.

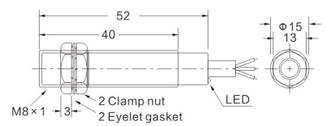
The magnetic sensor (magnetic switch) is composed of a reed switch and an amplifier. When the external magnetic field is close to the sensor, the reed is forced to be magnetized and then amplified by the amplifier circuit to increase the switch power to achieve the on-off control of the external circuit.

Analog sensor (also known as linear displacement sensor), when the metal object approaches its detection surface, an electrical signal that it outputs changes linearly with the distances so as to achieve the purpose of monitoring.

ALJ8A3-1 Series(Flush)



Output Method	
DC 2-Wire	AC 2-Wire
NO：ALJ8A3-1-Z/D1 NC：ALJ8A3-1-Z/D2	NO：ALJ8A3-1-J/A1 NC：ALJ8A3-1-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ8A3-1-Z/N1 NC：ALJ8A3-1-Z/N2	NO：ALJ8A3-1-Z/P1 NC：ALJ8A3-1-Z/P2
DC 4-Wire	
NO+NC：ALJ8A3-1-Z/N3 NO+NC：ALJ8A3-1-Z/P3	

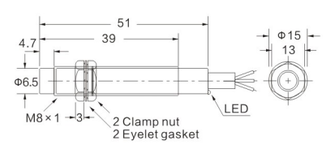


Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm±10%	Iron 8×8×1mm	DC:2kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ8A3-2 Series(Non-Flush)

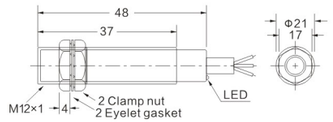
Output Method	
DC 2-Wire	AC 2-Wire
NO：ALJ8A3-2-Z/D1 NC：ALJ8A3-2-Z/D2	NO：ALJ8A3-2-J/A1 NC：ALJ8A3-2-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ8A3-2-Z/N1 NC：ALJ8A3-2-Z/N2	NO：ALJ8A3-2-Z/P1 NC：ALJ8A3-2-Z/P2
DC 4-Wire	
NO+NC：ALJ8A3-2-Z/N3 NO+NC：ALJ8A3-2-Z/P3	



Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm±10%	Iron 8×8×1mm	DC:2kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ12A3-2 Series(Flush)



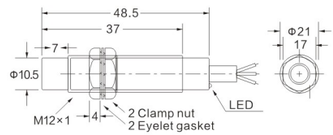
Output Method

DC 2-Wire	AC 2-Wire
ALJ12A3-2-Z/D1 ALJ12A3-2-Z/D2	NO：ALJ12A3-2-J/A1 NC：ALJ12A3-2-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
ALJ12A3-2-Z/N1 ALJ12A3-2-Z/N2	NO：ALJ12A3-2-Z/P1 NC：ALJ12A3-2-Z/P2
DC 4-Wire	
NO+NC：ALJ12A3-2-Z/N3 NO+NC：ALJ12A3-2-Z/P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm±10%	Iron 12×12×1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ12A3-4 Series(Non-Flush)



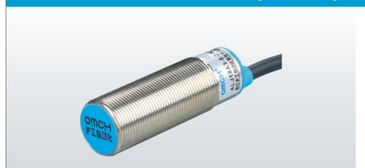
Output Method

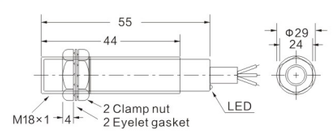
DC 2-Wire	AC 2-Wire
NO：ALJ12A3-4-Z/D1 NC：ALJ12A3-4-Z/D2	NO：ALJ12A3-4-J/A1 NC：ALJ12A3-4-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ12A3-4-Z/N1 NC：ALJ12A3-4-Z/N2	NO：ALJ12A3-4-Z/P1 NC：ALJ12A3-4-Z/P2
DC 4-Wire	
NO+NC：ALJ12A3-4-Z/N3 NO+NC：ALJ12A3-4-Z/P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm±10%	Iron 12×12×1mm	DC:0.8kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ18A3-5 Series(Flush)





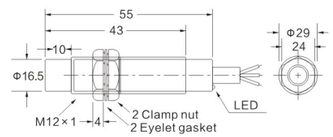
Output Method

DC 2-Wire	AC 2-Wire
NO：ALJ18A3-5-Z/D1 NC：ALJ18A3-5-Z/D2	NO：ALJ18A3-5-J/A1 NC：ALJ18A3-5-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ18A3-5-Z/N1 NC：ALJ18A3-5-Z/N2	NO：ALJ18A3-5-Z/P1 NC：ALJ18A3-5-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：ALJ18A3-5-Z/N3 NO+NC：ALJ18A3-5-Z/P3	NO+NC：ALJ18A3-5-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm±10%	Iron 18×18×1mm	DC:0.8kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ18A3-8 Series(Non-Flush)



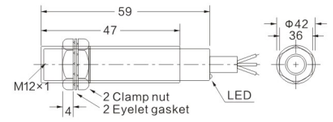
Output Method

DC 2-Wire	AC 2-Wire
NO：ALJ18A3-8-Z/D1 NC：ALJ18A3-8-Z/D2	NO：ALJ18A3-8-J/A1 NC：ALJ18A3-8-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ18A3-8-Z/N1 NC：ALJ18A3-8-Z/N2	NO：ALJ18A3-8-Z/P1 NC：ALJ18A3-8-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：ALJ18A3-8-Z/P3	NO+NC：ALJ18A3-8-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm±10%	Iron 18×18×1mm	DC:0.5kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ30A3-10 Series(Flush)



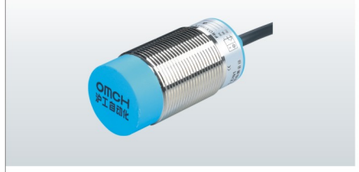
Output Method

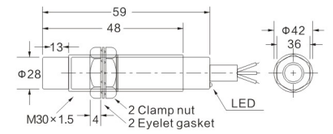
DC 2-Wire	AC 2-Wire
NO：ALJ30A3-10-Z/D1 NC：ALJ30A3-10-Z/D2	NO：ALJ30A3-10-J/A1 NC：ALJ30A3-10-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ30A3-10-Z/N1 NC：ALJ30A3-10-Z/N2	NO：ALJ30A3-10-Z/P1 NC：ALJ30A3-10-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：ALJ30A3-10-Z/N3 NO+NC：ALJ30A3-10-Z/P3	NO+NC：ALJ30A3-10-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm±10%	Iron 30×30×1mm	DC:0.5kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ30A3-15 Series(Non-Flush)





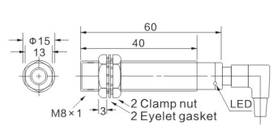
Output Method

DC 2-Wire	AC 2-Wire
NO：ALJ30A3-15-Z/D1 NC：ALJ30A3-15-Z/D2	NO：ALJ30A3-15-J/A1 NC：ALJ30A3-15-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ30A3-15-Z/N1 NC：ALJ30A3-15-Z/N2	NO：ALJ30A3-15-Z/P1 NC：ALJ30A3-15-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：ALJ30A3-15-Z/N3 NO+NC：ALJ30A3-15-Z/P3	NO+NC：ALJ30A3-15-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm±10%	Iron 30×30×1mm	DC:0.3kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ8A3-1 Series(Flush)



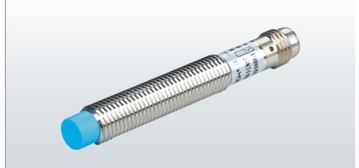
Output Method

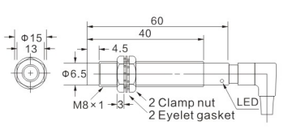
DC 2-Wire	AC 2-Wire
NO：ALJ8A3-1-Z/D1-T NC：ALJ8A3-1-Z/D2-T	NO：ALJ8A3-1-J/A1-T NC：ALJ8A3-1-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ8A3-1-Z/N1-T NC：ALJ8A3-1-Z/N2-T	NO：ALJ8A3-1-Z/P1-T NC：ALJ8A3-1-Z/P2-T

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm±10%	Iron 8×8×1mm	DC:2kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ8A3-2 Series(Non-Flush)





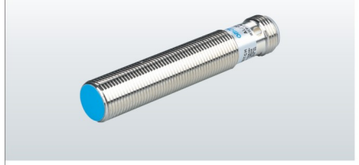
Output Method

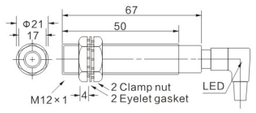
DC 2-Wire	AC 2-Wire
NO：ALJ8A3-2-Z/D1-T NC：ALJ8A3-2-Z/D2-T	NO：ALJ8A3-2-J/A1-T NC：ALJ8A3-2-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ8A3-2-Z/N1-T NC：ALJ8A3-2-Z/N2-T	NO：ALJ8A3-2-Z/P1-T NC：ALJ8A3-2-Z/P2-T

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm±10%	Iron 8×8×1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ12A3-2 Series(Flush)





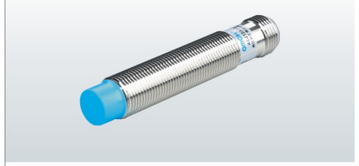
Output Method

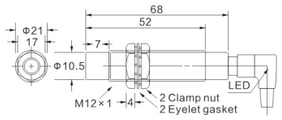
DC 2-Wire	AC 2-Wire
NO：ALJ12A3-2-Z/D1-T NC：ALJ12A3-2-Z/D2-T	NO：ALJ12A3-2-J/A1-T NC：ALJ12A3-2-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ12A3-2-Z/N1-T NC：ALJ12A3-2-Z/N2-T	NO：ALJ12A3-2-Z/P1-T NC：ALJ12A3-2-Z/P2-T
DC 4-Wire	
NO+NC：ALJ12A3-2-Z/N3-T NO+NC：ALJ12A3-2-Z/P3-T	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:1kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ12A3-4 (Non-Flush)





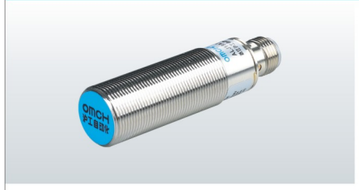
Output Method

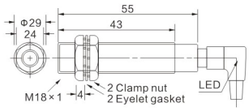
DC 2-Wire	AC 2-Wire
NO：ALJ12A3-4-Z/D1-T NC：ALJ12A3-4-Z/D2-T	NO：ALJ12A3-4-J/A1-T NC：ALJ12A3-4-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ12A3-4-Z/N1-T NC：ALJ12A3-4-Z/N2-T	NO：ALJ12A3-4-Z/P1-T NC：ALJ12A3-4-Z/P2-T
DC 4-Wire	
NO+NC：ALJ12A3-4-Z/N3-T NO+NC：ALJ12A3-4-Z/P3-T	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 12 × 12 × 1mm	DC:0.8kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ18A3-5 Series(Flush)





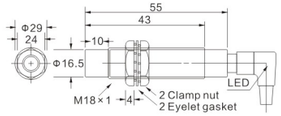
Output Method

DC 2-Wire	AC 2-Wire
NO：ALJ18A3-5-Z/D1-T NC：ALJ18A3-5-Z/D2-T	NO：ALJ18A3-5-J/A1-T NC：ALJ18A3-5-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ18A3-5-Z/N1-T NC：ALJ18A3-5-Z/N2-T	NO：ALJ18A3-5-Z/P1-T NC：ALJ18A3-5-Z/P2-T
DC 4-Wire	AC 4-Wire
NO+NC：ALJ18A3-5-Z/N3-T NO+NC：ALJ18A3-5-Z/P3-T	NO+NC：ALJ18A3-5-J/A3-T

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.8kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ18A3-8 (Non-Flush)



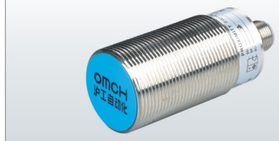
Output Method

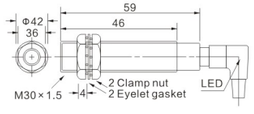
DC 2-Wire	AC 2-Wire
NO：ALJ18A3-8-Z/D1-T NC：ALJ18A3-8-Z/D2-T	NO：ALJ18A3-8-J/A1-T NC：ALJ18A3-8-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ18A3-8-Z/N1-T NC：ALJ18A3-8-Z/N2-T	NO：ALJ18A3-8-Z/P1-T NC：ALJ18A3-8-Z/P2-T
DC 4-Wire	AC 4-Wire
NO+NC：ALJ18A3-8-Z/N3-T NO+NC：ALJ18A3-8-Z/P3-T	NO+NC：ALJ18A3-8-J/A3-T

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ30A3-10 Series(Flush)





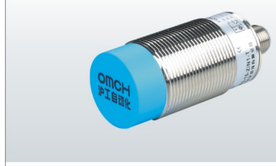
Output Method

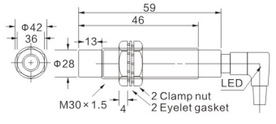
DC 2-Wire	AC 2-Wire
NO：ALJ30A3-10-Z/D1-T NC：ALJ30A3-10-Z/D2-T	NO：ALJ30A3-10-J/A1-T NC：ALJ30A3-10-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ30A3-10-Z/N1-T NC：ALJ30A3-10-Z/N2-T	NO：ALJ30A3-10-Z/P1-T NC：ALJ30A3-10-Z/P2-T
DC 4-Wire	AC 4-Wire
NO+NC：ALJ30A3-10-Z/N3-T NO+NC：ALJ30A3-10-Z/P3-T	NO+NC：ALJ30A3-10-J/A3-T

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ALJ30A3-15 (Non-Flush)





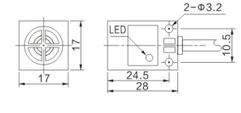
Output Method

DC 2-Wire	AC 2-Wire
NO：ALJ30A3-15-Z/D1-T NC：ALJ30A3-15-Z/D2-T	NO：ALJ30A3-15-J/A1-T NC：ALJ30A3-15-J/A2-T
DC 3-Wire NPN	DC 3-Wire PNP
NO：ALJ30A3-15-Z/N1-T NC：ALJ30A3-15-Z/N2-T	NO：ALJ30A3-15-Z/P1-T NC：ALJ30A3-15-Z/P2-T
DC 4-Wire	AC 4-Wire
NO+NC：ALJ30A3-15-Z/N3-T NO+NC：ALJ30A3-15-Z/P3-T	NO+NC：ALJ30A3-15-J/A3-T

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 30 × 30 × 1mm	DC:0.3kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-Q5 Series(Square Angle)



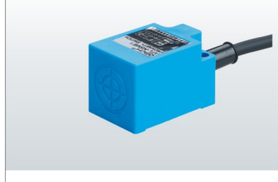
Output Method

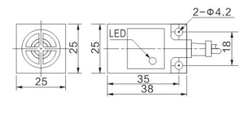
DC 2-Wire	AC 2-Wire
NO：ATL-Q5MD1 NC：ATL-Q5MD2	NO：ATL-Q5MA1 NC：ATL-Q5MA2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-Q5MN1 NC：ATL-Q5MN2	NO：ATL-Q5MP1 NC：ATL-Q5MP2
DC 4-Wire	
NO+NC：ATL-Q5MN3 NO+NC：ATL-Q5MP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:1kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-N5 Series(Square Angle)





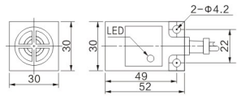
Output Method

DC 2-Wire	AC 2-Wire
NO：ATL-N5MD1 NC：ATL-N5MD2	NO：ATL-N5MA1 NC：ATL-N5MA2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-N5MN1 NC：ATL-N5MN2	NO：ATL-N5MP1 NC：ATL-N5MP2
DC 4-Wire	
NO+NC：ATL-N5MN3 NO+NC：ATL-N5MP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 25 × 25 × 1mm	DC:0.8kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-N10 Series(Square Angle)



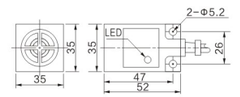
Output Method

DC 2-Wire	AC 2-Wire
NO：ATL-N10MD1 NC：ATL-N10MD2	NO：ATL-N10MA1 NC：ATL-N10MA2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-N10MN1 NC：ATL-N10MN2	NO：ATL-N10MP1 NC：ATL-N10MP2
DC 4-Wire	
NO+NC：ATL-N10MN3 NO+NC：ATL-N10MP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 35 × 35 × 1mm	DC:0.8kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-N15 Series(Square Angle)



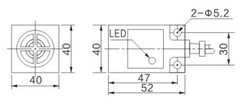
Output Method

DC 2-Wire	AC 2-Wire
NO：ATL-N15MD1 NC：ATL-N15MD2	NO：ATL-N15MA1 NC：ATL-N15MA2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-N15MN1 NC：ATL-N15MN2	NO：ATL-N15MP1 NC：ATL-N15MP2
DC 4-Wire	
NO+NC：ATL-N15MN3 NO+NC：ATL-N15MP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 35 × 35 × 1mm	DC:0.5kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-N20 Series(Square Angle)



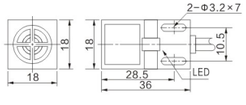
Output Method

DC 2-Wire	AC 2-Wire
NO：ATL-N20MD1 NC：ATL-N20MD2	NO：ATL-N20MA1 NC：ATL-N20MA2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-N20MN1 NC：ATL-N20MN2	NO：ATL-N20MP1 NC：ATL-N20MP2
DC 4-Wire	
NO+NC：ATL-N20MN3 NO+NC：ATL-N20MP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 45 × 45 × 1mm	DC:0.5kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ASN04 Series(Square Angle)



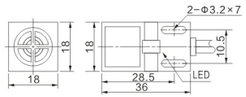
Output Method

DC 2-Wire	AC 2-Wire
NO：ASN04-D1 NC：ASN04-D2	NO：ASN04-A1 NC：ASN04-A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ASN04-N1 NC：ASN04-N2	NO：ASN04-P1 NC：ASN04-P2
DC 4-Wire	
NO+NC：ASN04-N3 NO+NC：ASN04-P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ASN05 Series(Square Angle)



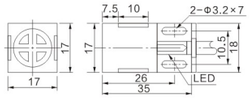
Output Method

DC 2-Wire	AC 2-Wire
NO：ASN05-D1 NC：ASN05-D2	NO：ASN05-A1 NC：ASN05-A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ASN05-N1 NC：ASN05-N2	NO：ASN05-P1 NC：ASN05-P2
DC 4-Wire	
NO+NC：ASN05-N3 NO+NC：ASN05-P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

APL-05 Series(Square Angle)



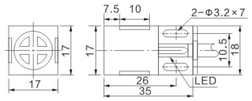
Output Method

DC 2-Wire	AC 2-Wire
NO：APL-05D1 NC：APL-05D2	NO：APL-05A1 NC：APL-05A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：APL-05N1 NC：APL-05N2	NO：APL-05P1 NC：APL-05P2
DC 4-Wire	
NO+NC：APL-05N3 NO+NC：APL-05P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

APS-05 Series(Square Angle)



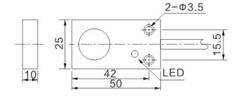
Output Method

DC 2-Wire	AC 2-Wire
NO：APS-05D1 NC：APS-05D2	NO：APS-05A1 NC：APS-05A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：APS-05N1 NC：APS-05N2	NO：APS-05P1 NC：APS-05P2
DC 4-Wire	
NO+NC：APS-05N3 NO+NC：APS-05P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-W5 Series(Square Angle)



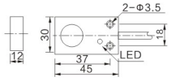
Output Method

DC 2-Wire	AC 2-Wire
NO：ATL-W5D1 NC：ATL-W5D2	NO：ATL-W5A1 NC：ATL-W5A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-W5N1 NC：ATL-W5N2	NO：ATL-W5P1 NC：ATL-W5P2
DC 4-Wire	
NO+NC：ATL-W5N3 NO+NC：ATL-W5P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:1kHz AC:50Hz	-30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ATL-W7 Series(Square Angle)



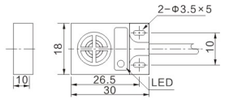
Output Method

DC 2-Wire	AC 2-Wire
NO：ATL-W7D1 NC：ATL-W7D2	NO：ATL-W7A1 NC：ATL-W7A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ATL-W7N1 NC：ATL-W7N2	NO：ATL-W7P1 NC：ATL-W7P2
DC 4-Wire	
NO+NC：ATL-W7N3 NO+NC：ATL-W7P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
7mm ± 10%	Iron 25 × 25 × 1mm	DC:0.8kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

AGKB-M0524 Series(Square Angle)



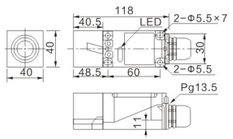
Output Method

DC 2-Wire	
NO：AGKB-M0524D1 NC：AGKB-M0524D2	
DC 3-Wire NPN	DC 3-Wire PNP
NO：AGKB-M0524N1 NC：AGKB-M0524N2	NO：AGKB-M0524P1 NC：AGKB-M0524P2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.8kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

AHY-3020 Series(Square Angle)



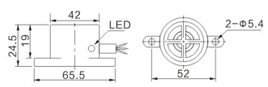
Output Method

DC 2-Wire	AC 2-Wire
NO：AHY-3020D1 NC：AHY-3020D2	NO：AHY-3020A1 NC：AHY-3020A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：AHY-3020N1 NC：AHY-3020N2	NO：AHY-3020P1 NC：AHY-3020P2
DC 4-Wire	
NO+NC：AHY-3020N3 NO+NC：AHY-3020P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 40 × 40 × 1mm	DC:1kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ASJ-3018 Series(Oblate)



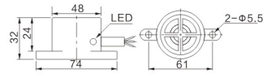
Output Method

DC 2-Wire	AC 2-Wire
NO：ASJ-3018D1 NC：ASJ-3018D2	NO：ASJ-3018A1 NC：ASJ-3018A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ASJ-3018N1 NC：ASJ-3018N2	NO：ASJ-3018P1 NC：ASJ-3018P2
DC 4-Wire	
NO+NC：ASJ-3018N3 NO+NC：ASJ-3018P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
18mm ± 10%	Iron 42 × 42 × 1mm	DC:1kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ASD-3020 Series(Oblate)



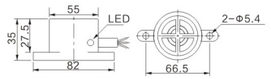
Output Method

DC 2-Wire	AC 2-Wire
NO：ASD-3020D1 NC：ASD-3020D2	NO：ASD-3020A1 NC：ASD-3020A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ASD-3020N1 NC：ASD-3020N2	NO：ASD-3020P1 NC：ASD-3020P2
DC 4-Wire	
NO+NC：ASD-3020N3 NO+NC：ASD-3020P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 48 × 48 × 1mm	DC:1kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

ASE-3025 Series(Oblate)



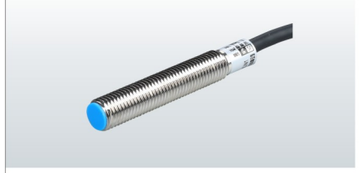
Output Method

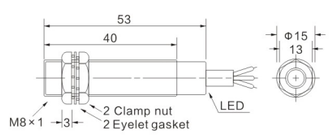
DC 2-Wire	AC 2-Wire
NO：ASE-3025D1 NC：ASE-3025D2	NO：ASE-3025A1 NC：ASE-3025A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：ASE-3025N1 NC：ASE-3025N2	NO：ASE-3025P1 NC：ASE-3025P2
DC 4-Wire	
NO+NC：ASE-3025N3 NO+NC：ASE-3025P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
25mm ± 10%	Iron 55 × 55 × 1mm	DC:1kHz AC:50Hz	−30℃~+65℃	IP67

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ8A3-1 Series(Flush)





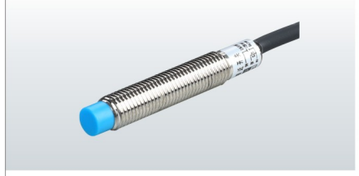
Output Method

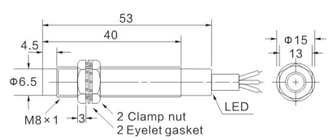
DC 2-Wire	AC 2-Wire
NO：HLJ8A3-1-Z/D1 NC：HLJ8A3-1-Z/D2	NO：HLJ8A3-1-J/A1 NC：HLJ8A3-1-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ8A3-1-Z/N1 NC：HLJ8A3-1-Z/N2	NO：HLJ8A3-1-Z/P1 NC：HLJ8A3-1-Z/P2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1.5mm ± 10%	Iron 8 × 8 × 1mm	DC:2kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ8A3-2 Series(Non-Flush)





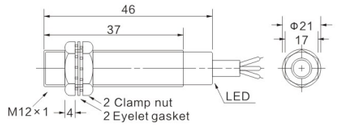
Output Method

DC 2-Wire	AC 2-Wire
NO：HLJ8A3-2-Z/D1 NC：HLJ8A3-2-Z/D2	NO：HLJ8A3-2-J/A1 NC：HLJ8A3-2-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ8A3-2-Z/N1 NC：HLJ8A3-2-Z/N2	NO：HLJ8A3-2-Z/P1 NC：HLJ8A3-2-Z/P2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 8 × 8 × 1mm	DC:2kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ12A3-2 Series(Flush)



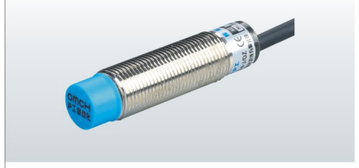
Output Method

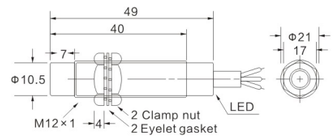
DC 2-Wire	AC 2-Wire
NO：HLJ12A3-2-Z/D1 NC：HLJ12A3-2-Z/D2	NO：HLJ12A3-2-J/A1 NC：HLJ12A3-2-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ12A3-2-Z/N1 NC：HLJ12A3-2-Z/N2	NO：HLJ12A3-2-Z/P1 NC：HLJ12A3-2-Z/P2
DC 4-Wire	
NO+NC：HLJ12A3-2-Z/N3 NO+NC：HLJ12A3-2-Z/P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:1kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ12A3-4 Series(Non-Flush)





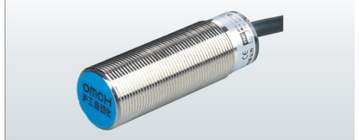
Output Method

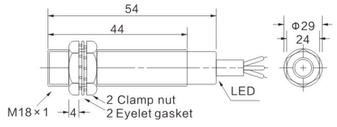
DC 2-Wire	AC 2-Wire
NO：HLJ12A3-4-Z/D1 NC：HLJ12A3-4-Z/D2	NO：HLJ12A3-4-J/A1 NC：HLJ12A3-4-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ12A3-4-Z/N1 NC：HLJ12A3-4-Z/N2	NO：HLJ12A3-4-Z/P1 NC：HLJ12A3-4-Z/P2
DC 4-Wire	
NO+NC：HLJ12A3-4-Z/N3 NO+NC：HLJ12A3-4-Z/P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 12 × 12 × 1mm	DC:1kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ18A3-5 Series(Flush)





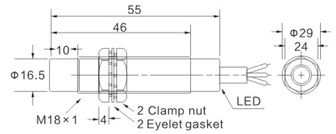
Output Method

DC 2-Wire	AC 2-Wire
NO：HLJ18A3-5-Z/D1 NC：HLJ18A3-5-Z/D2	NO：HLJ18A3-5-J/A1 NC：HLJ18A3-5-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ18A3-5-Z/N1 NC：HLJ18A3-5-Z/N2	NO：HLJ18A3-5-Z/P1 NC：HLJ18A3-5-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：HLJ18A3-5-Z/N3 NO+NC：HLJ18A3-5-Z/P3	NO+NC：HLJ18A3-5-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.8kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ18A3-8 Series(Non-Flush)



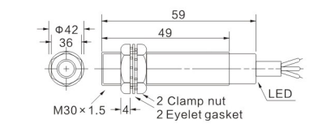
Output Method

DC 2-Wire	AC 2-Wire
NO：HLJ18A3-8-Z/D1 NC：HLJ18A3-8-Z/D2	NO：HLJ18A3-8-J/A1 NC：HLJ18A3-8-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ18A3-8-Z/N1 NC：HLJ18A3-8-Z/N2	NO：HLJ18A3-8-Z/P1 NC：HLJ18A3-8-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：HLJ18A3-8-Z/N3 NO+NC：HLJ18A3-8-Z/P3	NO+NC：HLJ18A3-8-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 18 × 18 × 1mm	DC:0.8kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ30A3-10 Series(Flush)



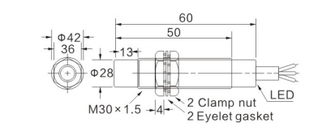
Output Method

DC 2-Wire	AC 2-Wire
NO：HLJ30A3-10-Z/D1 NC：HLJ30A3-10-Z/D2	NO：HLJ30A3-10-J/A1 NC：HLJ30A3-10-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ30A3-10-Z/N1 NC：HLJ30A3-10-Z/N2	NO：HLJ30A3-10-Z/P1 NC：HLJ30A3-10-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：HLJ30A3-10-Z/N3 NO+NC：HLJ30A3-10-Z/P3	NO+NC：HLJ30A3-10-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

HLJ30A3-15 Series(Non-Flush)



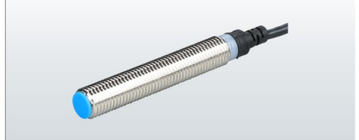
Output Method

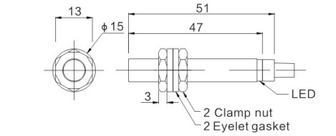
DC 2-Wire	AC 2-Wire
NO：HLJ30A3-15-Z/D1 NC：HLJ30A3-15-Z/D2	NO：HLJ30A3-15-J/A1 NC：HLJ30A3-15-J/A2
DC 3-Wire NPN	DC 3-Wire PNP
NO：HLJ30A3-15-Z/N1 NC：HLJ30A3-15-Z/N2	NO：HLJ30A3-15-Z/P1 NC：HLJ30A3-15-Z/P2
DC 4-Wire	AC 4-Wire
NO+NC：HLJ30A3-15-Z/N3 NO+NC：HLJ30A3-15-Z/P3	NO+NC：HLJ30A3-15-J/A3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:50Hz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ8A3-2 Series(Flush)





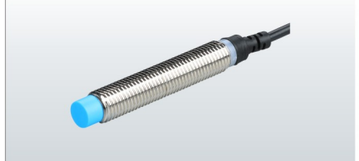
Output Method

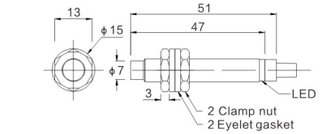
DC 2-Wire	
NO：LLJ8A3-2-Z/D1 NC：LLJ8A3-2-Z/D2	
DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ8A3-2-Z/N1 NC：LLJ8A3-2-Z/N2	NO：LLJ8A3-2-Z/P1 NC：LLJ8A3-2-Z/P2
DC 4-Wire	
NO+NC：LLJ8A3-2-Z/N3 NO+NC：LLJ8A3-2-Z/P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 8 × 8 × 1mm	DC:1kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ8A3-4 Series(Non-Flush)





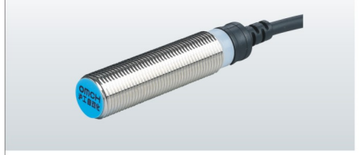
Output Method

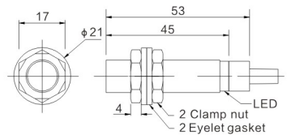
DC 2-Wire	
NO：LLJ8A3-4-Z/D1 NC：LLJ8A3-4-Z/D2	
DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ8A3-4-Z/N1 NC：LLJ8A3-4-Z/N2	NO：LLJ8A3-4-Z/P1 NC：LLJ8A3-4-Z/P2
DC 4-Wire	
NO+NC：LLJ8A3-4-Z/N3 NO+NC：LLJ8A3-4-Z/P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 8 × 8 × 1mm	DC:1kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ12A3-4 Series(Flush)





Output Method

DC 2-Wire

NO：LLJ12A3-4-Z/D1
NC：LLJ12A3-4-Z/D2

DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ12A3-4-Z/N1 NC：LLJ12A3-4-Z/N2	NO：LLJ12A3-4-Z/P1 NC：LLJ12A3-4-Z/P2

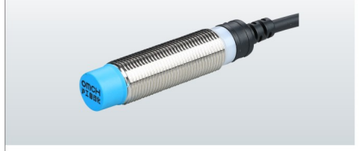
DC 4-Wire

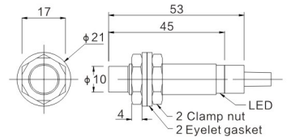
NO+NC：LLJ12A3-4-Z/N3
NO+NC：LLJ12A3-4-Z/P3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 12 × 12 × 1mm	DC:1kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ12A3-8 Series(Non-Flush)





Output Method

DC 2-Wire

NO：LLJ12A3-8-Z/D1
NC：LLJ12A3-8-Z/D2

DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ12A3-8-Z/N1 NC：LLJ12A3-8-Z/N2	NO：LLJ12A3-8-Z/P1 NC：LLJ12A3-8-Z/P2

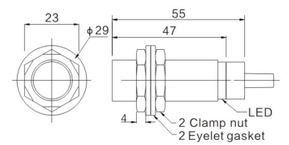
DC 4-Wire

NO+NC：LLJ12A3-8-Z/N3
NO+NC：LLJ12A3-8-Z/P3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 12 × 12 × 1mm	DC:1kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ18A3-10 Series(Flush)



Output Method

DC 2-Wire

NO：LLJ18A3-10-Z/D1
NC：LLJ18A3-10-Z/D2

DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ18A3-10-Z/N1 NC：LLJ18A3-10-Z/N2	NO：LLJ18A3-10-Z/P1 NC：LLJ18A3-10-Z/P2

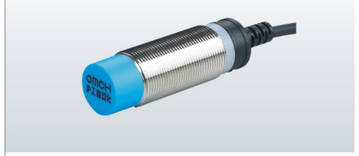
DC 4-Wire

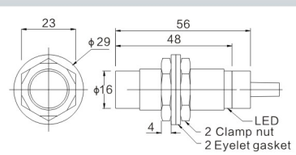
NO+NC：LLJ18A3-10-Z/N3
NO+NC：LLJ18A3-10-Z/P3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 18 × 18 × 1mm	DC:0.8kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ18A3-15 Series(Non-Flush)





Output Method

DC 2-Wire

NO：LLJ18A3-15-Z/D1
NC：LLJ18A3-15-Z/D2

DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ18A3-15-Z/N1 NC：LLJ18A3-15-Z/N2	NO：LLJ18A3-15-Z/P1 NC：LLJ18A3-15-Z/P2

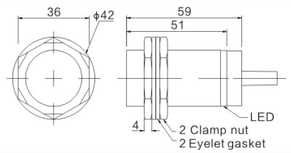
DC 4-Wire

NO+NC：LLJ18A3-15-Z/N3
NO+NC：LLJ18A3-15-Z/P3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 18 × 18 × 1mm	DC:0.8kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ30A3-15 Series(Flush)



Output Method

DC 2-Wire

NO：LLJ30A3-15-Z/D1
NC：LLJ30A3-15-Z/D2

DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ30A3-15-Z/N1 NC：LLJ30A3-15-Z/N2	NO：LLJ30A3-15-Z/P1 NC：LLJ30A3-15-Z/P2

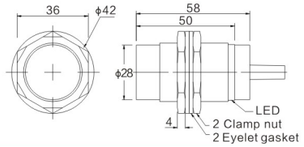
DC 4-Wire

NO+NC：LLJ30A3-15-Z/N3
NO+NC：LLJ30A3-15-Z/P3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LLJ30A3-25 Series(Non-Flush)



Output Method

DC 2-Wire

NO：LLJ30A3-25-Z/D1
NC：LLJ30A3-25-Z/D2

DC 3-Wire NPN	DC 3-Wire PNP
NO：LLJ30A3-25-Z/N1 NC：LLJ30A3-25-Z/N2	NO：LLJ30A3-25-Z/P1 NC：LLJ30A3-25-Z/P2

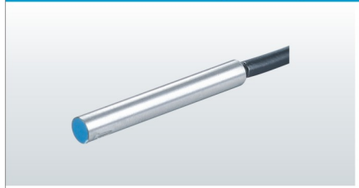
DC 4-Wire

NO+NC：LLJ30A3-25-Z/N3
NO+NC：LLJ30A3-25-Z/P3

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
25mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz	−25℃~+65℃	IP68

Circuit protection: N . P . D type: reverse connection protection, surge absorption, load short circuit protection; A type: surge absorption

LJ4A3-1 Series(Flush)

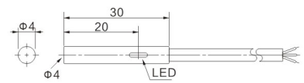


Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ4A3-1-Z/BX NC：LJ4A3-1-Z/AX	NO：LJ4A3-1-Z/BY NC：LJ4A3-1-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm ± 10%	Iron 4 × 4 × 1mm	DC:1kHz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



Proximity switch outer diameter	Φ4
Mounting hole processing size	$\Phi 4.2^{+0.5}_{0}$

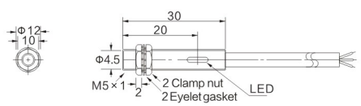
LJ5A3-1 Series(Flush)

Output Method

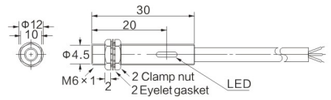
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ5A3-1-Z/BX NC：LJ5A3-1-Z/AX	NO：LJ5A3-1-Z/BY NC：LJ5A3-1-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm ± 10%	Iron 5 × 5 × 1mm	DC:1kHz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



LJ6A3-1 Series(Flush)



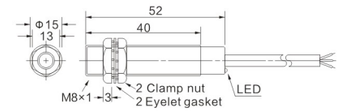
Output Method

DC 2-Wire	
NO：LJ6A3-1-Z/EX NC：LJ6A3-1-Z/DX	
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ6A3-1-Z/BX NC：LJ6A3-1-Z/AX	NO：LJ6A3-1-Z/BY NC：LJ6A3-1-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm ± 10%	Iron 6 × 6 × 1mm	DC:1kHz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ8A3-1 Series(Flush)



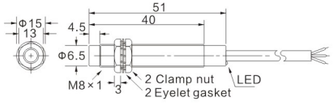
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ8A3-1-Z/EX NC：LJ8A3-1-Z/DX	NO：LJ8A3-1-J/EZ NC：LJ8A3-1-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ8A3-1-Z/BX NC：LJ8A3-1-Z/AX	NO：LJ8A3-1-Z/BY NC：LJ8A3-1-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm ± 10%	Iron 8 × 8 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ8A3-2 Series(Non-Flush)



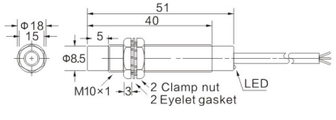
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ8A3-2-Z/EX NC：LJ8A3-2-Z/DX	NO：LJ8A3-2-J/EZ NC：LJ8A3-2-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ8A3-2-Z/BX NC：LJ8A3-2-Z/AX	NO：LJ8A3-2-Z/BY NC：LJ8A3-2-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 8 × 8 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ10A3-2 Series(Non-Flush)



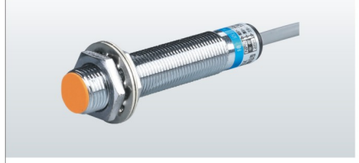
Output Method

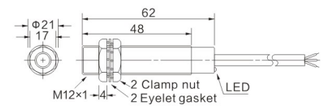
DC 2-Wire	AC 2-Wire
NO：LJ10A3-2-Z/EX NC：LJ10A3-2-Z/DX	NO：LJ10A3-2-J/EZ NC：LJ10A3-2-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ10A3-2-Z/BX NC：LJ10A3-2-Z/AX	NO：LJ10A3-2-Z/BY NC：LJ10A3-2-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 10 × 10 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ12A3-2 Series(Flush)





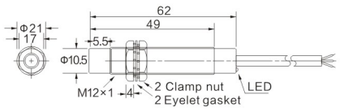
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ12A3-2-Z/EX NC：LJ12A3-2-Z/DX	NO：LJ12A3-2-J/EZ NC：LJ12A3-2-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ12A3-2-Z/BX NC：LJ12A3-2-Z/AX	NO：LJ12A3-2-Z/BY NC：LJ12A3-2-Z/AY
DC 4-Wire	
NO+NC：LJ12A3-2-Z/CX NO+NC：LJ12A3-2-Z/CY	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ12A3-4 Series(Non-Flush)



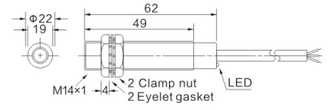
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ12A3-4-Z/EX NC：LJ12A3-4-Z/DX	NO：LJ12A3-4-J/EZ NC：LJ12A3-4-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ12A3-4-Z/BX NC：LJ12A3-4-Z/AX	NO：LJ12A3-4-Z/BY NC：LJ12A3-4-Z/AY
DC 4-Wire	
NO+NC：LJ12A3-4-Z/CX NO+NC：LJ12A3-4-Z/CY	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ14A3-3 Series(Flush)



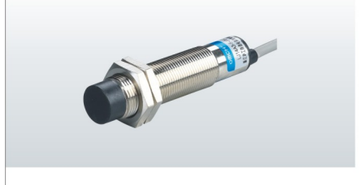
Output Method

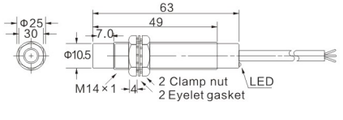
DC 2-Wire	AC 2-Wire
NO：LJ14A3-3-Z/EX NC：LJ14A3-3-Z/DX	NO：LJ14A3-3-J/EZ NC：LJ14A3-3-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ14A3-3-Z/BX NC：LJ14A3-3-Z/AX	NO：LJ14A3-3-Z/BY NC：LJ14A3-3-Z/AY
DC 4-Wire	
NO+NC：LJ14A3-3-Z/CX NO+NC：LJ14A3-3-Z/CY	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
3mm ± 10%	Iron 14 × 14 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ14A3-5 Series(Non-Flush)





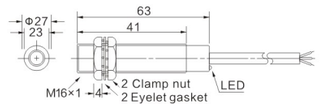
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ14A3-5-Z/EX NC：LJ14A3-5-Z/DX	NO：LJ14A3-5-J/EZ NC：LJ14A3-5-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ14A3-5-Z/BX NC：LJ14A3-5-Z/AX	NO：LJ14A3-5-Z/BY NC：LJ14A3-5-Z/AY
DC 4-Wire	
NO+NC：LJ14A3-5-Z/CX NO+NC：LJ14A3-5-Z/CY	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 14 × 14 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ16A3-3 Series(Flush)



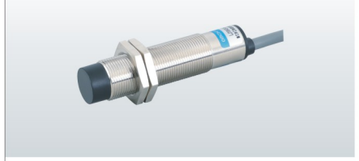
Output Method

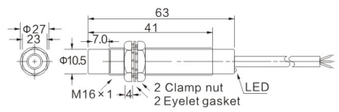
DC 2-Wire	AC 2-Wire
NO：LJ16A3-3-Z/EX NC：LJ16A3-3-Z/DX	NO：LJ16A3-3-J/EZ NC：LJ16A3-3-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ16A3-3-Z/BX NC：LJ16A3-3-Z/AX	NO：LJ16A3-3-Z/BY NC：LJ16A3-3-Z/AY
DC 4-Wire	
NO+NC：LJ16A3-3-Z/CX NO+NC：LJ16A3-3-Z/CY	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
3mm ± 10%	Iron 16 × 16 × 1mm	DC:0.5kHz AC:5Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ16A3-5 Series(Non-Flush)





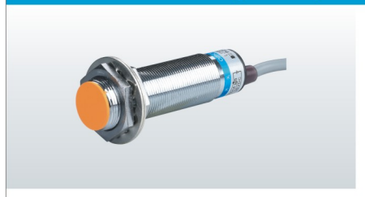
Output Method

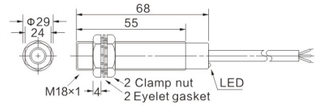
DC 2-Wire	AC 2-Wire
NO：LJ16A3-5-Z/EX NC：LJ16A3-5-Z/DX	NO：LJ16A3-5-J/EZ NC：LJ16A3-5-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ16A3-5-Z/BX NC：LJ16A3-5-Z/AX	NO：LJ16A3-5-Z/BY NC：LJ16A3-5-Z/AY
DC 4-Wire	
NO+NC：LJ16A3-5-Z/CX NO+NC：LJ16A3-5-Z/CY	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 16 × 16 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ18A3-5 Series(Flush)





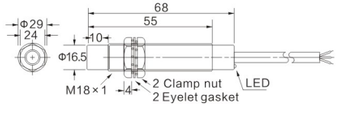
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ18A3-5-Z/EX NC：LJ18A3-5-Z/DX	NO：LJ18A3-5-J/EZ NC：LJ18A3-5-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ18A3-5-Z/BX NC：LJ18A3-5-Z/AX	NO：LJ18A3-5-Z/BY NC：LJ18A3-5-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ18A3-5-Z/CX NO+NC：LJ18A3-5-Z/CY	NO+NC：LJ18A3-5-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ18A3-8 Series(Non-Flush)



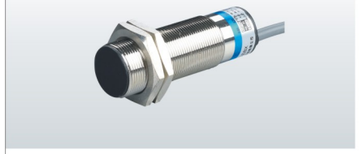
Output Method

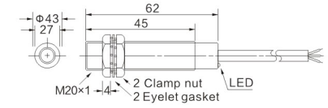
DC 2-Wire	AC 2-Wire
NO：LJ18A3-8-Z/EX NC：LJ18A3-8-Z/DX	NO：LJ18A3-8-J/EZ NC：LJ18A3-8-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ18A3-8-Z/BX NC：LJ18A3-8-Z/AX	NO：LJ18A3-8-Z/BY NC：LJ18A3-8-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ18A3-8-Z/CX NO+NC：LJ18A3-8-Z/CY	NO+NC：LJ18A3-8-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ20A3-5 Series(Flush)





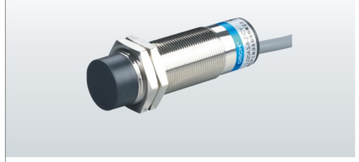
Output Method

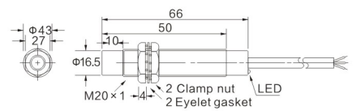
DC 2-Wire	AC 2-Wire
NO：LJ20A3-5-Z/EX NC：LJ20A3-5-Z/DX	NO：LJ20A3-5-J/EZ NC：LJ20A3-5-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ20A3-5-Z/BX NC：LJ20A3-5-Z/AX	NO：LJ20A3-5-Z/BY NC：LJ20A3-5-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ20A3-5-Z/CX NO+NC：LJ20A3-5-Z/CY	NO+NC：LJ20A3-5-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 20 × 20 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ20A3-8 Series(Non-Flush)





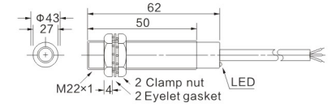
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ20A3-8-Z/EX NC：LJ20A3-8-Z/DX	NO：LJ20A3-8-J/EZ NC：LJ20A3-8-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ20A3-8-Z/BX NC：LJ20A3-8-Z/AX	NO：LJ20A3-8-Z/BY NC：LJ20A3-8-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ20A3-8-Z/CX NO+NC：LJ20A3-8-Z/CY	NO+NC：LJ20A3-8-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 20 × 20 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ22A3-5 Series(Flush)



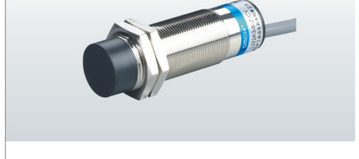
Output Method

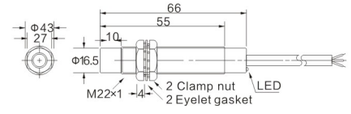
DC 2-Wire	AC 2-Wire
NO：LJ22A3-5-Z/EX NC：LJ22A3-5-Z/DX	NO：LJ22A3-5-J/EZ NC：LJ22A3-5-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ22A3-5-Z/BX NC：LJ22A3-5-Z/AX	NO：LJ22A3-5-Z/BY NC：LJ22A3-5-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ22A3-5-Z/CX NO+NC：LJ22A3-5-Z/CY	NO+NC：LJ22A3-5-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 22 × 22 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ22A3-8 Series(Non-Flush)





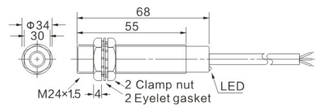
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ22A3-8-Z/EX NC：LJ22A3-8-Z/DX	NO：LJ22A3-8-J/EZ NC：LJ22A3-8-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ22A3-8-Z/BX NC：LJ22A3-8-Z/AX	NO：LJ22A3-8-Z/BY NC：LJ22A3-8-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ22A3-8-Z/CX NO+NC：LJ22A3-8-Z/CY	NO+NC：LJ22A3-8-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 22 × 22 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ24A3-8 Series(Flush)



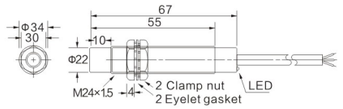
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ24A3-8-Z/EX NC：LJ24A3-8-Z/DX	NO：LJ24A3-8-J/EZ NC：LJ24A3-8-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ24A3-8-Z/BX NC：LJ24A3-8-Z/AX	NO：LJ24A3-8-Z/BY NC：LJ24A3-8-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ24A3-8-Z/CX NO+NC：LJ24A3-8-Z/CY	NO+NC：LJ24A3-8-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 24 × 24 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ24A3-10 Series(Non-Flush)



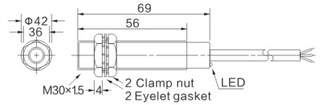
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ24A3-10-Z/EX NC：LJ24A3-10-Z/DX	NO：LJ24A3-10-J/EZ NC：LJ24A3-10-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ24A3-10-Z/BX NC：LJ24A3-10-Z/AX	NO：LJ24A3-10-Z/BY NC：LJ24A3-10-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ24A3-10-Z/CX NO+NC：LJ24A3-10-Z/CY	NO+NC：LJ24A3-10-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 24 × 24 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ30A3-10 Series(Flush)



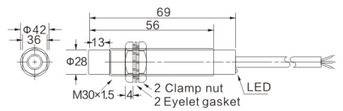
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ30A3-10-Z/EX NC：LJ30A3-10-Z/DX	NO：LJ30A3-10-J/EZ NC：LJ30A3-10-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ30A3-10-Z/BX NC：LJ30A3-10-Z/AX	NO：LJ30A3-10-Z/BY NC：LJ30A3-10-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ30A3-10-Z/CX NO+NC：LJ30A3-10-Z/CY	NO+NC：LJ30A3-10-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ30A3-15 Series(Non-Flush)



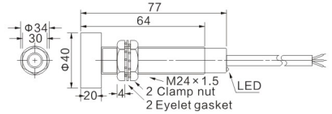
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ30A3-15-Z/EX NC：LJ30A3-15-Z/DX	NO：LJ30A3-15-J/EZ NC：LJ30A3-15-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ30A3-15-Z/BX NC：LJ30A3-15-Z/AX	NO：LJ30A3-15-Z/BY NC：LJ30A3-15-Z/AY
DC 4-Wire	AC 4-Wire
NO+NC：LJ30A3-15-Z/CX NO+NC：LJ30A3-15-Z/CY	NO+NC：LJ30A3-15-J/EDZ

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 30 × 30 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SC-3020 Series(Non-Flush)



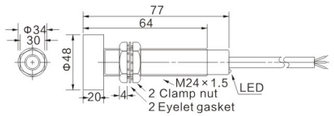
Output Method

DC 2-Wire	AC 2-Wire
NO：SC-3020AL NC：SC-3020BL	NO：SC-2020A NC：SC-2020B
DC 3-Wire NPN	DC 3-Wire PNP
NO：SC-3020A NC：SC-3020B	NO：SC-3020C NC：SC-3020D
DC 4-Wire	AC 4-Wire
NO+NC：SC-3020AB NO+NC：SC-3020CD	NO+NC：SC-2020AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 40 × 40 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SC-3025 Series(Non-Flush)



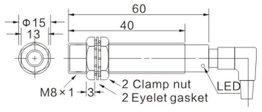
Output Method

DC 2-Wire	AC 2-Wire
NO：SC-3025AL NC：SC-3025BL	NO：SC-2025A NC：SC-2025B
DC 3-Wire NPN	DC 3-Wire PNP
NO：SC-3025A NC：SC-3025B	NO：SC-3025C NC：SC-3025D
DC 4-Wire	AC 4-Wire
NO+NC：SC-3025AB NO+NC：SC-3025CD	NO+NC：SC-2025AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
25mm ± 10%	Iron 48 × 48 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ8A3-1 Series(Flush)



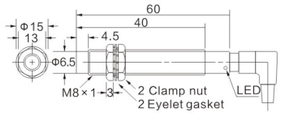
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ8A3-1-Z/EX-G NC：LJ8A3-1-Z/DX-G	NO：LJ8A3-1-J/EZ-G NC：LJ8A3-1-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ8A3-1-Z/BX-G NC：LJ8A3-1-Z/AX-G	NO：LJ8A3-1-Z/BY-G NC：LJ8A3-1-Z/AY-G

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1mm ± 10%	Iron 8 × 8 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ8A3-2 Series(Non-Flush)



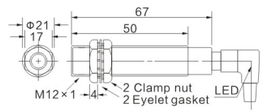
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ8A3-2-Z/EX-G NC：LJ8A3-2-Z/DX-G	NO：LJ8A3-2-J/EZ-G NC：LJ8A3-2-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ8A3-2-Z/BX-G NC：LJ8A3-2-Z/AX-G	NO：LJ8A3-2-Z/BY-G NC：LJ8A3-2-Z/AY-G

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 8 × 8 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ12A3-2 Series(Flush)



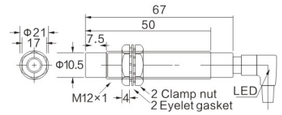
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ12A3-2-Z/EX-G NC：LJ12A3-2-Z/DX-G	NO：LJ12A3-2-J/EZ-G NC：LJ12A3-2-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ12A3-2-Z/BX-G NC：LJ12A3-2-Z/AX-G	NO：LJ12A3-2-Z/BY-G NC：LJ12A3-2-Z/AY-G
DC 4-Wire	
NO+NC：LJ12A3-2-Z/CX-G NO+NC：LJ12A3-2-Z/CY-G	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ12A3-4 Series(Non-Flush)



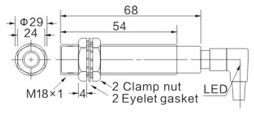
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ12A3-4-Z/EX-G NC：LJ12A3-4-Z/DX-G	NO：LJ12A3-4-J/EZ-G NC：LJ12A3-4-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ12A3-4-Z/BX-G NC：LJ12A3-4-Z/AX-G	NO：LJ12A3-4-Z/BY-G NC：LJ12A3-4-Z/AY-G
DC 4-Wire	
NO+NC：LJ12A3-4-Z/CX-G NO+NC：LJ12A3-4-Z/CY-G	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ18A3-5 Series(Flush)



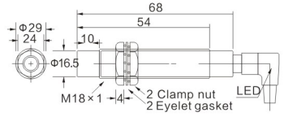
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ18A3-5-Z/EX-G NC：LJ18A3-5-Z/DX-G	NO：LJ18A3-5-J/EZ-G NC：LJ18A3-5-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ18A3-5-Z/BX-G NC：LJ18A3-5-Z/AX-G	NO：LJ18A3-5-Z/BY-G NC：LJ18A3-5-Z/AY-G
DC 4-Wire	AC 4-Wire
NO+NC：LJ18A3-5-Z/CX-G NO+NC：LJ18A3-5-Z/CY-G	NO+NC：LJ18A3-5-J/EDZ-G

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ18A3-8 Series(Non-Flush)



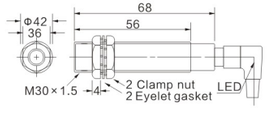
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ18A3-8-Z/EX-G NC：LJ18A3-8-Z/DX-G	NO：LJ18A3-8-J/EZ-G NC：LJ18A3-8-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ18A3-8-Z/BX-G NC：LJ18A3-8-Z/AX-G	NO：LJ18A3-8-Z/BY-G NC：LJ18A3-8-Z/AY-G
DC 4-Wire	AC 4-Wire
NO+NC：LJ18A3-8-Z/CX-G NO+NC：LJ18A3-8-Z/CY-G	NO+NC：LJ18A3-8-J/EDZ-G

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ30A3-10 Series(Flush)



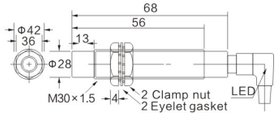
Output Method

DC 2-Wire	AC 2-Wire
NO：LJ30A3-10-Z/EX-G NC：LJ30A3-10-Z/DX-G	NO：LJ30A3-10-J/EZ-G NC：LJ30A3-10-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ30A3-10-Z/BX-G NC：LJ30A3-10-Z/AX-G	NO：LJ30A3-10-Z/BY-G NC：LJ30A3-10-Z/AY-G
DC 4-Wire	AC 4-Wire
NO+NC：LJ30A3-10-Z/CX-G NO+NC：LJ30A3-10-Z/CY-G	NO+NC：LJ30A3-10-J/EDZ-G

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJ30A3-15 Series(Non-Flush)



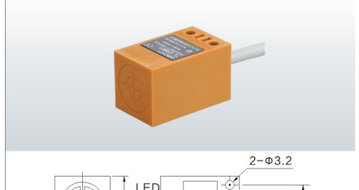
Output Method

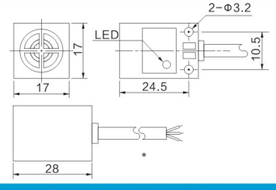
DC 2-Wire	AC 2-Wire
NO：LJ30A3-15-Z/EX-G NC：LJ30A3-15-Z/DX-G	NO：LJ30A3-15-J/EZ-G NC：LJ30A3-15-J/DZ-G
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJ30A3-15-Z/BX-G NC：LJ30A3-15-Z/AX-G	NO：LJ30A3-15-Z/BY-G NC：LJ30A3-15-Z/AY-G
DC 4-Wire	AC 4-Wire
NO+NC：LJ30A3-15-Z/CX-G NO+NC：LJ30A3-15-Z/CY-G	NO+NC：LJ30A3-15-J/EDZ-G

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 30 × 30 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TL-Q5M Series(Square Angle Type)





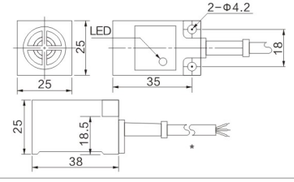
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-Q5MD1 NC：TL-Q5MD2	NO：TL-Q5MY1 NC：TL-Q5MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：TL-Q5MC1 NC：TL-Q5MC2	NO：TL-Q5MF1 NC：TL-Q5MF2
DC 4-Wire	
NO+NC：TL-Q5MC3 NO+NC：TL-Q5MF3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TL-N5M Series(Square Angle Type)



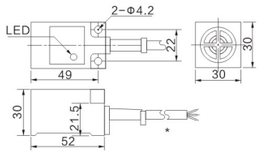
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-N5MD1 NC：TL-N5MD2	NO：TL-N5MY1 NC：TL-N5MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：TL-N5ME1 NC：TL-N5ME2	NO：TL-N5MF1 NC：TL-N5MF2
DC 4-Wire	
NO+NC：TL-N5ME3 NO+NC：TL-N5MF3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 25 × 25 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TL-N10M Series(Square Angle Type)



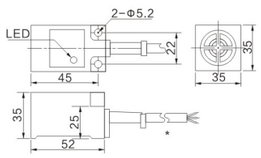
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-N10MD1 NC：TL-N10MD2	NO：TL-N10MY1 NC：TL-N10MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：TL-N10ME1 NC：TL-N10ME2	NO：TL-N10MF1 NC：TL-N10MF2
DC 4-Wire	
NO+NC：TL-N10ME3 NO+NC：TL-N10MF3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TL-N15M Series(Square Angle Type)



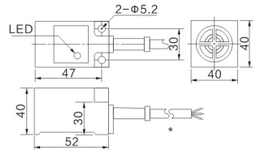
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-N15MD1 NC：TL-N15MD2	NO：TL-N15MY1 NC：TL-N15MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：TL-N15ME1 NC：TL-N15ME2	NO：TL-N15MF1 NC：TL-N15MF2
DC 4-Wire	
NO+NC：TL-N15ME3 NO+NC：TL-N15MF3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 35 × 35 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TL-N20M Series(Square Angle Type)



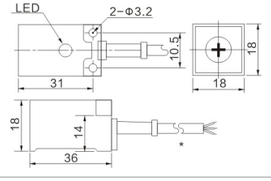
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-N20MD1 NC：TL-N20MD2	NO：TL-N20MY1 NC：TL-N20MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：TL-N20ME1 NC：TL-N20ME2	NO：TL-N20MF1 NC：TL-N20MF2
DC 4-Wire	
NO+NC：TL-N20ME3 NO+NC：TL-N20MF3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 40 × 40 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PS17-5(8) Series(Square Angle Type)



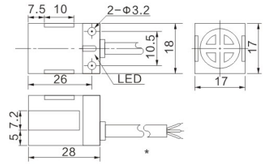
Output Method

DC 2-Wire	AC 2-Wire
NO：PS17-5(8)D1 NC：PS17-5(8)D2	NO：PS17-5(8)Y1 NC：PS17-5(8)Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：PS17-5(8)DN NC：PS17-5(8)DN2	NO：PS17-5(8)DP NC：PS17-5(8)DP2
DC 4-Wire	
NO+NC：PS17-5(8)DN3 NO+NC：PS17-5(8)DP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5(8)mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PS-05(8) Series(Square Angle Type)



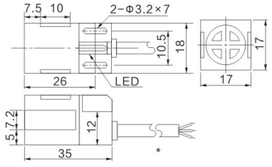
Output Method

DC 2-Wire	AC 2-Wire
NO：PS-05(8)D1 NC：PS-05(8)D2	NO：PS-05(8)Y1 NC：PS-05(8)Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：PS-05(8)N NC：PS-05(8)N2	NO：PS-05(8)P NC：PS-05(8)P2
DC 4-Wire	
NO+NC：PS-05(8)N3 NO+NC：PS-05(8)P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5(8)mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PL-05(8) Series(Square Angle Type)



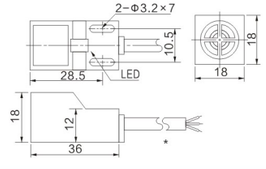
Output Method

DC 2-Wire	AC 2-Wire
NO：PL-05(8)D1 NC：PL-05(8)D2	NO：PL-05(8)Y1 NC：PL-05(8)Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：PL-05(8)N NC：PL-05(8)N2	NO：PL-05(8)P NC：PL-05(8)P2
DC 4-Wire	
NO+NC：PL-05(8)N3 NO+NC：PL-05(8)P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5(8)mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SN04 Series(Square Angle Type)



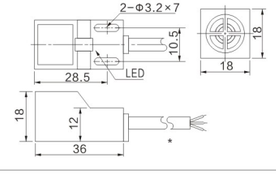
Output Method

DC 2-Wire	AC 2-Wire
NO：SN04-D1 NC：SN04-D2	NO：SN04-Y1 NC：SN04-Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：SN04-N NC：SN04-N2	NO：SN04-P NC：SN04-P2
DC 4-Wire	
NO+NC：SN04-N3 NO+NC：SN04-P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SN05 Series(Square Angle Type)



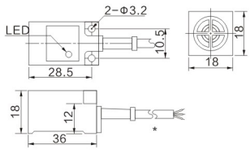
Output Method

DC 2-Wire	AC 2-Wire
NO：SN05-D1 NC：SN05-D2	NO：SN05-Y1 NC：SN05-Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：SN05-N NC：SN05-N2	NO：SN05-P NC：SN05-P2
DC 4-Wire	
NO+NC：SN05-N3 NO+NC：SN05-P3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

Ni5-Q18 Series(Square Angle Type)



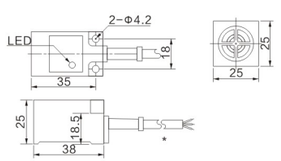
Output Method

DC 2-Wire	AC 2-Wire
NO：Ni5-Q18-AD4X NC：Ni5-Q18-RD4X	NO：Ni5-Q18-AZ3X NC：Ni5-Q18-RZ3X
DC 3-Wire NPN	DC 3-Wire PNP
NO：Ni5-Q18-AN6X NC：Ni5-Q18-RN6X	NO：Ni5-Q18-AP6X NC：Ni5-Q18-RP6X

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

Ni10-Q25 Series(Square Angle Type)



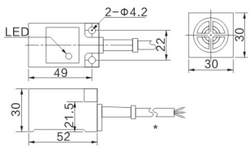
Output Method

DC 2-Wire	AC 2-Wire
NO：Ni10-Q25-AD4X NC：Ni10-Q25-RD4X	NO：Ni10-Q25-AZ3X NC：Ni10-Q25-RZ3X
DC 3-Wire NPN	DC 3-Wire PNP
NO：Ni10-Q25-AN6X NC：Ni10-Q25-RN6X	NO：Ni10-Q25-AP6X NC：Ni10-Q25-RP6X

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 25 × 25 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

Ni15-Q30 Series(Square Angle Type)



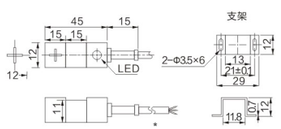
Output Method

DC 2-Wire	AC 2-Wire
NO：Ni15-Q30-AD4X NC：Ni15-Q30-RD4X	NO：Ni15-Q30-AZ3X NC：Ni15-Q30-RZ3X
DC 3-Wire NPN	DC 3-Wire PNP
NO：Ni15-Q30-AN6X NC：Ni15-Q30-RN6X	NO：Ni15-Q30-AP6X NC：Ni15-Q30-RP6X

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 50 × 50 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PS12-4 Series(Square Angle Type)



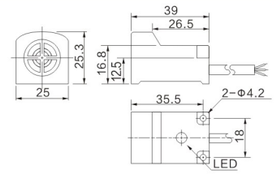
Output Method

DC 2-Wire	AC 2-Wire
NO：PS12-4DO NC：PS12-4DC	NO：PS12-4AO NC：PS12-4AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PS12-4DN NC：PS12-4DN2	NO：PS12-4DP NC：PS12-4DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PSN25-5 Series(Square Angle Type)



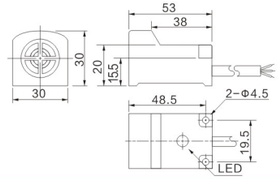
Output Method

DC 2-Wire	AC 2-Wire
NO：PSN25-5DO NC：PSN25-5DC	NO：PSN25-5AO NC：PSN25-5AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PSN25-5DN NC：PSN25-5DN2	NO：PSN25-5DP NC：PSN25-5DP2
DC 4-Wire	
NO+NC：PSN25-5DN3 NO+NC：PSN25-5DP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 25 × 25 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PSN30-10 Series(Square Angle Type)



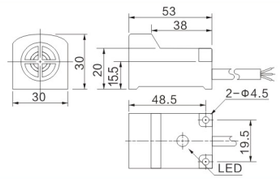
Output Method

DC 2-Wire	AC 2-Wire
NO：PSN30-10DO NC：PSN30-10DC	NO：PSN30-10AO NC：PSN30-10AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PSN30-10DN NC：PSN30-10DN2	NO：PSN30-10DP NC：PSN30-10DP2
DC 4-Wire	
NO+NC：PSN30-10DN3 NO+NC：PSN30-10DP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PSN30-15 Series(Square Angle Type)



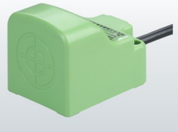
Output Method

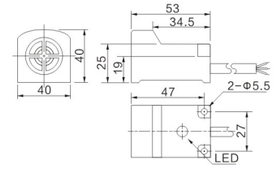
DC 2-Wire	AC 2-Wire
NO：PSN30-15DO NC：PSN30-15DC	NO：PSN30-15AO NC：PSN30-15AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PSN30-15DN NC：PSN30-15DN2	NO：PSN30-15DP NC：PSN30-15DP2
DC 4-Wire	
NO+NC：PSN30-15DN3 NO+NC：PSN30-15DP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 30 × 30 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PSN40-20 Series(Square Angle Type)





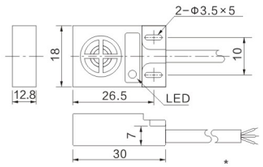
Output Method

DC 2-Wire	AC 2-Wire
NO：PSN40-20DO NC：PSN40-20DC	NO：PSN40-20AO NC：PSN40-20AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PSN40-20DN NC：PSN40-20DN2	NO：PSN40-20DP NC：PSN40-20DP2
DC 4-Wire	
NO+NC：PSN40-20DN3 NO+NC：PSN40-20DP3	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 40 × 40 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

GKB-M0524 Series(Square Angle Type)



Output Method

DC 2-Wire	
NO：GKB-M0524D1 NC：GKB-M0524D2	
DC 3-Wire NPN	**DC 3-Wire PNP**
NO：GKB-M0524NA NC：GKB-M0524NB	NO：GKB-M0524PA NC：GKB-M0524PB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 36 × 18 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

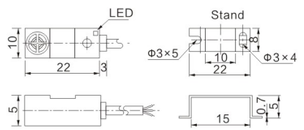
TL-W3M Series(Square Angle Type)

Output Method

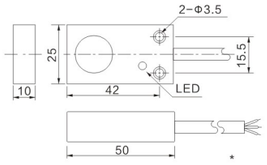
DC 3-Wire NPN	DC 3-Wire PNP
NO：TL-W3MC1 NC：TL-W3MC2	NO：TL-W3MB1 NC：TL-W3MB2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
3mm ± 10%	Iron 25 × 20 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



TL-W5 Series(Square Angle Type)



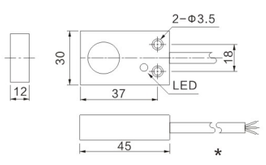
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-W5D1 NC：TL-W5D2	NO：TL-W5A1 NC：TL-W5A2
DC 3-Wire NPN	**DC 3-Wire PNP**
NO：TL-W5E1 NC：TL-W5E2	NO：TL-W5F1 NC：TL-W5F2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 50 × 25 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TL-W7 Series(Square Angle Type)



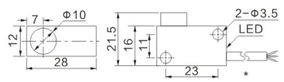
Output Method

DC 2-Wire	AC 2-Wire
NO：TL-W7D1 NC：TL-W7D2	NO：TL-W7A1 NC：TL-W7A2
DC 3-Wire NPN	**DC 3-Wire PNP**
NO：TL-W7E1 NC：TL-W7E2	NO：TL-W7F1 NC：TL-W7F2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
7mm ± 10%	Iron 45 × 30 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJG5C-4 Series(Square Angle Type)



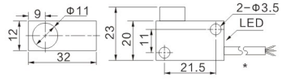
Output Method

DC 2-Wire	
NO：LJG5C-4/Z0AN2 NC：LJG5C-4/Z0BN2	
DC 3-Wire NPN	**DC 3-Wire PNP**
NO：LJG5C-4/Z2CN2 NC：LJG5C-4/Z2BN2	NO：LJG5C-4/Z2CP2 NC：LJG5C-4/Z2BP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 28 × 16 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

LJG5C-5 Series(Square Angle Type)



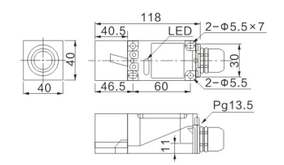
Output Method

DC 2-Wire	
NO：LJG5C-5/Z0AN2 NC：LJG5C-5/Z0BN2	
DC 3-Wire NPN	**DC 3-Wire PNP**
NO：LJG5C-5/Z2CN2 NC：LJG5C-5/Z2BN2	NO：LJG5C-5/Z2CP2 NC：LJG5C-5/Z2BP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 32 × 22 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

HY-3020(15) Series(Square Angle Type)



Output Method

DC 2-Wire	AC 2-Wire
NO：HY-3020(15)AL NC：HY-3020(15)BL	NO：HY-2020(15)A NC：HY-2020(15)B
DC 3-Wire NPN	**DC 3-Wire PNP**
NO：HY-3020(15)A NC：HY-3020(15)B	NO：HY-3020(15)C NC：HY-3020(15)D
DC 4-Wire	**AC 4-Wire**
NO+NC：HY-3020(15)AB NO+NC：HY-3020(15)CD	NO+NC：HY-2020(15)AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20(15)mm ± 10%	Iron 40 × 40 × 1mm	DC:0.3kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

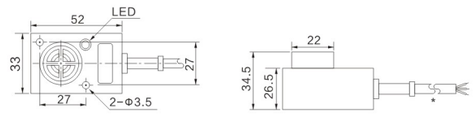
LJ1A Series(Square Angle Type)

Output Method

DC 3-Wire NPN	AC 2-Wire
NO：LJ1A-24 NC：LJ1A-24B	NO：LJ1A-220 NC：LJ1A-220B

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 52 × 33 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



WJK-Ⅱ(Green) Series(Square Angle Type)

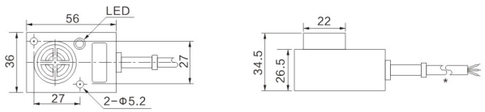
Output Method

AC 2-Wire

NO：WJK-Ⅱ(Green)
NC：WJK-Ⅱ2(Green)

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 56 × 36 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



WJK-Ⅱ(White) Series(Square Angle Type)

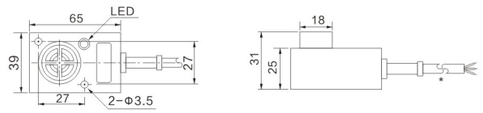
Output Method

AC 2-Wire

NO：WJK-Ⅱ(White)
NC：WJK-Ⅱ2(White)

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 65 × 39 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



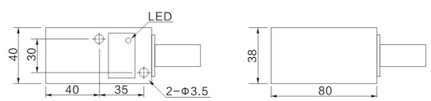
LJ2-10(15)/211 Series(Square Angle Type)

Output Method

DC 3-Wire NPN	AC 2-Wire
NO：LJ2-10(15)/211(221) NC：LJ2-10(15)G/211(221)	NO：LJ2L-10(15)-4/121 NC：LJ2L-10(15)G-4/121

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10(15)mm ± 10%	Iron 38 × 40 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



JWK-A(D)5P Series(Square Angle Type)

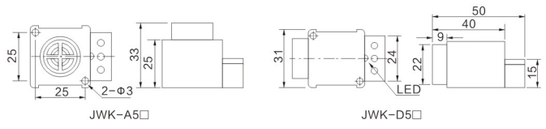
Output Method

DC 3-Wire NPN

NO：JWK-A(D)5P
NC：JWK-A(D)5P2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 31 × 33 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



JWK220-A(D)10J Series(Square Angle Type)

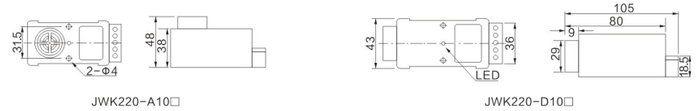
Output Method

Relay Output

JWK220-A(D)10J(Voltage)
JWK220-A(D)10JK(Contact)

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 48 × 48 × 1mm	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



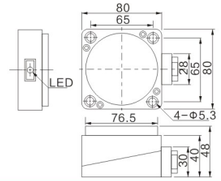
HM-3040 Series(Square Angle Type)

Output Method

DC 2-Wire	AC 2-Wire
NO：HM-3040AL NC：HM-3040BL	NO：HM-2040A NC：HM-2040B
DC 3-Wire NPN	DC 3-Wire PNP
NO：HM-3040A NC：HM-3040B	NO：HM-3040C NC：HM-3040D
	AC 4-Wire
	NO+NC：HM-2040AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
40mm ± 10%	Iron 80 × 80 × 1mm	DC:0.3kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



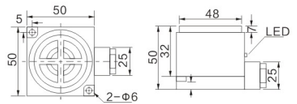
HD-3020 Series(Square Angle Type)

Output Method

DC 2-Wire	AC 2-Wire
NO：HD-3020AL NC：HD-3020BL	NO：HD-2020A NC：HD-2020B
DC 3-Wire NPN	DC 3-Wire PNP
NO：HD-3020A NC：HD-3020B	NO：HD-3020C NC：HD-3020D
	AC 4-Wire
	NO+NC：HD-2020AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 50 × 50 × 1mm	DC:0.3kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



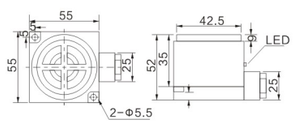
HE-3025 Series(Square Angle Type)

Output Method

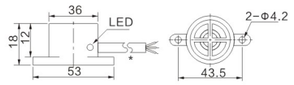
DC 2-Wire	AC 2-Wire
NO：HE-3025AL NC：HE-3025BL	NO：HE-2025A NC：HE-2025B
DC 3-Wire NPN	DC 3-Wire PNP
NO：HE-3025A NC：HE-3025B	NO：HE-3025C NC：HE-3025D
	AC 4-Wire
	NO+NC：HE-2025AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
25mm ± 10%	Iron 55 × 55 × 1mm	DC:0.3kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



SK-3015 Series(Oblate Type)



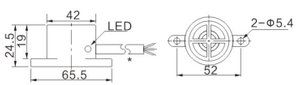
Output Method

DC 2-Wire	AC 2-Wire
NO：SK-3015AL NC：SK-3015BL	NO：SK-2015A NC：SK-2015B
DC 3-Wire NPN	DC 3-Wire PNP
NO：SK-3015A NC：SK-3015B	NO：SK-3015C NC：SK-3015D
DC 4-Wire	
NO+NC：SK-3015AB NO+NC：SK-3015CD	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 36 × 18 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SJ-3018A Series(Oblate Type)



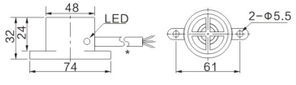
Output Method

DC 2-Wire	AC 2-Wire
NO：SJ-3018AL NC：SJ-3018BL	NO：SJ-2018A NC：SJ-2018B
DC 3-Wire NPN	DC 3-Wire PNP
NO：SJ-3018A NC：SJ-3018B	NO：SJ-3018C NC：SJ-3018D
DC 4-Wire	
NO+NC：SJ-3018AB NO+NC：SJ-3018CD	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
18mm ± 10%	Iron 42 × 42 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SD-3020 Series(Oblate Type)



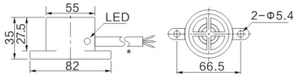
Output Method

DC 2-Wire	AC 2-Wire
NO：SD-3020AL NC：SD-3020BL	NO：SD-2020A NC：SD-2020B
DC 3-Wire NPN	DC 3-Wire PNP
NO：SD-3020A NC：SD-3020B	NO：SD-3020C NC：SD-3020D
DC 4-Wire	AC 4-Wire
NO+NC：SD-3020AB NO+NC：SD-3020CD	NO+NC：SD-2020AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	Iron 48 × 32 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

SE-3025 Series(Oblate Type)



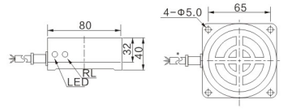
Output Method

DC 2-Wire	AC 2-Wire
NO：SE-3025AL NC：SE-3025BL	NO：SE-2025A NC：SE-2025B
DC 3-Wire NPN	DC 3-Wire PNP
NO：SE-3025A NC：SE-3025B	NO：SE-3025C NC：SE-3025D
DC 4-Wire	AC 4-Wire
NO+NC：SE-3025AB NO+NC：SE-3025CD	NO+NC：SE-2025AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
25mm ± 10%	Iron 75 × 75 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TCO-3040 Series(Disk Type)



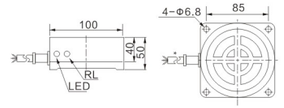
Output Method

DC 2-Wire	AC 2-Wire
NO：TCO-3040AL NC：TCO-3040BL	NO：TCO-2040A NC：TCO-2040B
DC 3-Wire NPN	DC 3-Wire PNP
NO：TCO-3040A NC：TCO-3040B	NO：TCO-3040C NC：TCO-3040D
DC 4-Wire	AC 4-Wire
NO+NC：TCO-3040AB NO+NC：TCO-3040CD	NO+NC：TCO-2040AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
40mm ± 10%	Iron 80 × 80 × 2mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TCA-3050 Series(Disk Type)



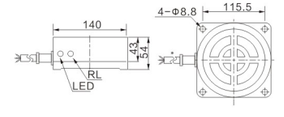
Output Method

DC 2-Wire	AC 2-Wire
NO：TCA-3050AL NC：TCA-3050BL	NO：TCA-2050A NC：TCA-2050B
DC 3-Wire NPN	DC 3-Wire PNP
NO：TCA-3050A NC：TCA-3050B	NO：TCA-3050C NC：TCA-3050D
DC 4-Wire	AC 4-Wire
NO+NC：TCA-3050AB NO+NC：TCA-3050CD	NO+NC：TCA-2050AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
50mm ± 10%	Iron 100 × 100 × 2mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TCB-3080 Series(Disk Type)



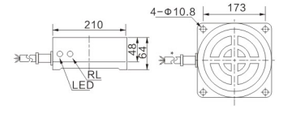
Output Method

DC 2-Wire	AC 2-Wire
NO：TCB-3080AL NC：TCB-3080BL	NO：TCB-2080A NC：TCB-2080B
DC 3-Wire NPN	DC 3-Wire PNP
NO：TCB-3080A NC：TCB-3080B	NO：TCB-3080C NC：TCB-3080D
DC 4-Wire	AC 4-Wire
NO+NC：TCB-3080AB NO+NC：TCB-3080CD	NO+NC：TCB-2080AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
80mm ± 10%	Iron 140 × 140 × 2mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

TCC-30120 Series(Disk Type)



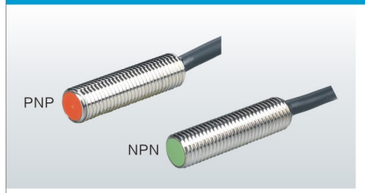
Output Method

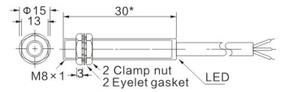
DC 2-Wire	AC 2-Wire
NO：TCC-30120AL NC：TCC-30120BL	NO：TCC-20120A NC：TCC-20120B
DC 3-Wire NPN	DC 3-Wire PNP
NO：TCC-30120A NC：TCC-30120B	NO：TCC-30120C NC：TCC-30120D
DC 4-Wire	AC 4-Wire
NO+NC：TCC-30120AB NO+NC：TCC-30120CD	NO+NC：TCC-20120AB

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
120mm ± 10%	Iron 210 × 210 × 2mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR08-1.5 Series(Flush)





* Note: The total length of the AC 2-wire type shell is 50mm

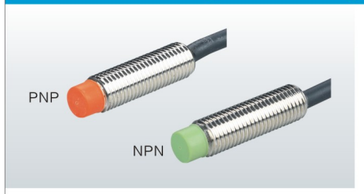
Output Method

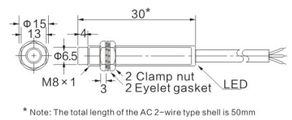
DC 2-Wire	
NO：PR08-1.5DO NC：PR08-1.5DC	
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR08-1.5DN NC：PR08-1.5DN2	NO：PR08-1.5DP NC：PR08-1.5DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1.5mm ± 10%	Iron 8 × 8 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR08-2 Series(Non-Flush)





* Note: The total length of the AC 2-wire type shell is 50mm

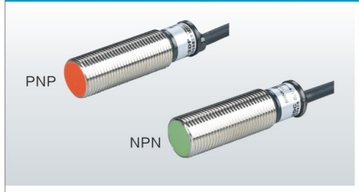
Output Method

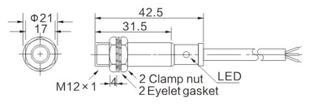
DC 2-Wire	
NO：PR08-2DO NC：PR08-2DC	
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR08-2DN NC：PR08-2DN2	NO：PR08-2DP NC：PR08-2DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR12-2 Series(Flush)





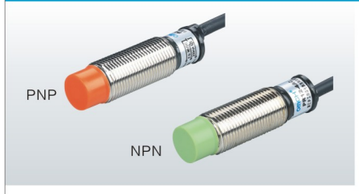
Output Method

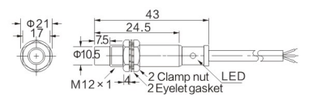
DC 2-Wire	AC 2-Wire
NO：PR12-2DO NC：PR12-2DC	NO：PR12-2AO NC：PR12-2AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR12-2DN NC：PR12-2DN2	NO：PR12-2DP NC：PR12-2DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR12-4 Series(Non-Flush)





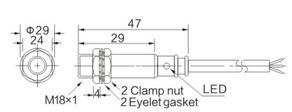
Output Method

DC 2-Wire	AC 2-Wire
NO：PR12-4DO NC：PR12-4DC	NO：PR12-4AO NC：PR12-4AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR12-4DN NC：PR12-4DN2	NO：PR12-4DP NC：PR12-4DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
4mm ± 10%	Iron 15 × 15 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR18-5 Series(Flush)



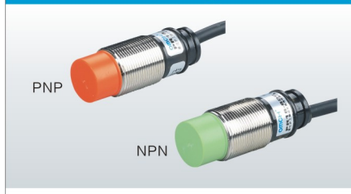
Output Method

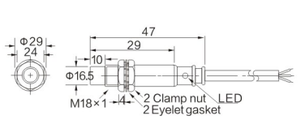
DC 2-Wire	AC 2-Wire
NO：PR18-5DO NC：PR18-5DC	NO：PR18-5AO NC：PR18-5AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR18-5DN NC：PR18-5DN2	NO：PR18-5DP NC：PR18-5DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR18-8 Series(Non-Flush)





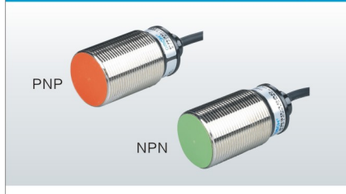
Output Method

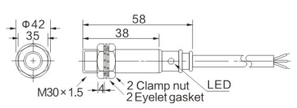
DC 2-Wire	AC 2-Wire
NO：PR18-8DO NC：PR18-8DC	NO：PR18-8AO NC：PR18-8AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR18-8DN NC：PR18-8DN2	NO：PR18-8DP NC：PR18-8DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR30-10 Series(Flush)





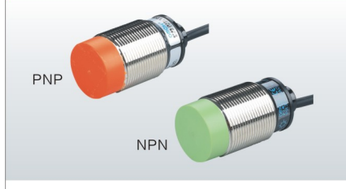
Output Method

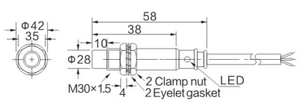
DC 2-Wire	AC 2-Wire
NO：PR30-10DO NC：PR30-10DC	NO：PR30-10AO NC：PR30-10AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR30-10DN NC：PR30-10DN2	NO：PR30-10DP NC：PR30-10DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

PR30-15 Series(Non-Flush)





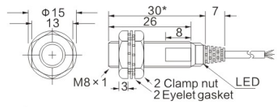
Output Method

DC 2-Wire	AC 2-Wire
NO：PR30-15DO NC：PR30-15DC	NO：PR30-15AO NC：PR30-15AC
DC 3-Wire NPN	DC 3-Wire PNP
NO：PR30-15DN NC：PR30-15DN2	NO：PR30-15DP NC：PR30-15DP2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	Iron 54 × 54 × 1mm	DC:0.3kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X1R5 Series(Flush)



* Note : The total length of the AC 2 – wire type shell is 50mm

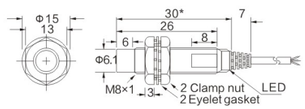
Output Method

DC 2-Wire	
NO：E2E-X1R5D1 NC：E2E-X1R5D2	
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X1R5E1 NC：E2E-X1R5E2	NO：E2E-X1R5F1 NC：E2E-X1R5F2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
1.5mm ± 10%	Iron 8 × 8 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X2M Series(Non-Flush)



* Note : The total length of the AC 2 – wire type shell is 50mm

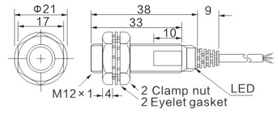
Output Method

DC 2-Wire	
NO：E2E-X2MD1 NC：E2E-X2MD2	
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X2ME1 NC：E2E-X2ME2	NO：E2E-X2MF1 NC：E2E-X2MF2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X2 Series(Flush)



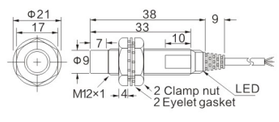
Output Method

DC 2-Wire	AC 2-Wire
NO：E2E-X2D1 NC：E2E-X2D2	NO：E2E-X2Y1 NC：E2E-X2Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X2E1 NC：E2E-X2E2	NO：E2E-X2F1 NC：E2E-X2F2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	Iron 12 × 12 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X5M Series(Non-Flush)



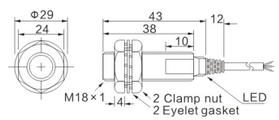
Output Method

DC 2-Wire	AC 2-Wire
NO：E2E-X5MD1 NC：E2E-X5MD2	NO：E2E-X5MY1 NC：E2E-X5MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X5ME1 NC：E2E-X5ME2	NO：E2E-X5MF1 NC：E2E-X5MF2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 15 × 15 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X5 Series(Flush)



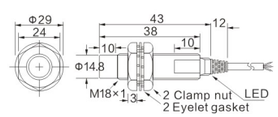
Output Method

DC 2-Wire	AC 2-Wire
NO：E2E-X5D1 NC：E2E-X5D2	NO：E2E-X5Y1 NC：E2E-X5Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X5E1 NC：E2E-X5E2	NO：E2E-X5F1 NC：E2E-X5F2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	Iron 18 × 18 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X10M Series(Non-Flush)



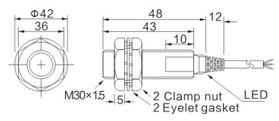
Output Method

DC 2-Wire	AC 2-Wire
NO：E2E-X10MD1 NC：E2E-X10MD2	NO：E2E-X10MY1 NC：E2E-X10MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X10ME1 NC：E2E-X10ME2	NO：E2E-X10MF1 NC：E2E-X10MF2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X10 Series(Flush)



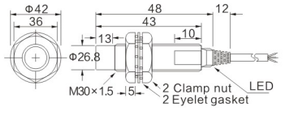
Output Method

DC 2-Wire	AC 2-Wire
NO：E2E-X10D1 NC：E2E-X10D2	NO：E2E-X10Y1 NC：E2E-X10Y2
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X10E1 NC：E2E-X10E2	NO：E2E-X10F1 NC：E2E-X10F2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Iron 30 × 30 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

E2E-X18M Series(Non-Flush)



Output Method

DC 2-Wire	AC 2-Wire
NO：E2E-X18MD1 NC：E2E-X18MD2	NO：E2E-X18MY1 NC：E2E-X18MY2
DC 3-Wire NPN	DC 3-Wire PNP
NO：E2E-X18ME1 NC：E2E-X18ME2	NO：E2E-X18MF1 NC：E2E-X18MF2

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
18mm ± 10%	Iron 54 × 54 × 1mm	DC:0.5kHz AC:25Hz	−25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption

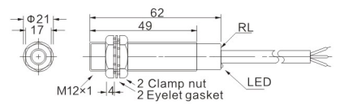
LJC12A3-2-Z Series(Flush)

Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC12A3-2-Z/BX NC：LJC12A3-2-Z/AX	NO：LJC12A3-2-Z/BY NC：LJC12A3-2-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
2mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



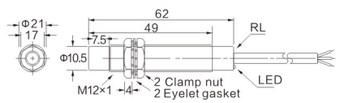
LJC12A3-A-Z Series(Non-Flush)

Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC12A3-A-Z/BX NC：LJC12A3-A-Z/AX	NO：LJC12A3-A-Z/BY NC：LJC12A3-A-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



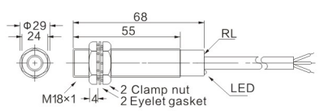
LJC18A3-5 Series(Flush)

Output Method

	AC 2-Wire
	NO：LJC18A3-5-J/EZ NC：LJC18A3-5-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC18A3-5-Z/BX NC：LJC18A3-5-Z/AX	NO：LJC18A3-5-Z/BY NC：LJC18A3-5-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
5mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



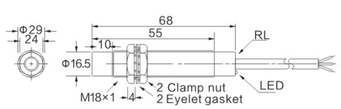
LJC18A3-B Series(Non-Flush)

Output Method

	AC 2-Wire
	NO：LJC18A3-B-J/EZ NC：LJC18A3-B-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC18A3-B-Z/BX NC：LJC18A3-B-Z/AX	NO：LJC18A3-B-Z/BY NC：LJC18A3-B-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



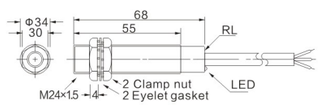
LJC24A3-8 Series(Flush)

Output Method

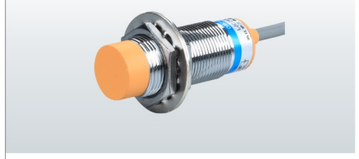
	AC 2-Wire
	NO：LJC24A3-8-J/EZ NC：LJC24A3-8-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC24A3-8-Z/BX NC：LJC24A3-8-Z/AX	NO：LJC24A3-8-Z/BY NC：LJC24A3-8-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
8mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



LJC24A3-T Series(Non-Flush)

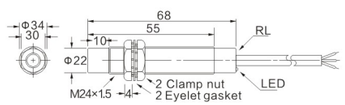


Output Method

	AC 2-Wire
	NO：LJC24A3-T-J/EZ NC：LJC24A3-T-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC24A3-T-Z/BX NC：LJC24A3-T-Z/AX	NO：LJC24A3-T-Z/BY NC：LJC24A3-T-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
15mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



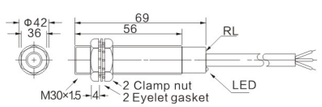
LJC30A3-10 Series(Flush)

Output Method

	AC 2-Wire
	NO：LJC30A3-10-J/EZ NC：LJC30A3-10-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC30A3-10-Z/BX NC：LJC30A3-10-Z/AX	NO：LJC30A3-10-Z/BY NC：LJC30A3-10-Z/AY

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	non-metallic object	DC:0.5kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



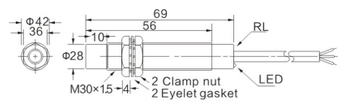
LJC30A3-H Series(Non-Flush)

Output Method

	AC 2-Wire
	NO：LJC30A3-H-J/EZ NC：LJC30A3-H-J/DZ
DC 3-Wire NPN	DC 3-Wire PNP
NO：LJC30A3-H-Z/BX NC：LJC30A3-H-Z/AX	NO：LJC30A3-H-Z/BY NC：LJC30A3-H-Z/AY

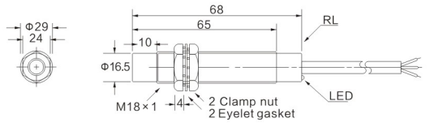
Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
20mm ± 10%	non-metallic object	DC:0.3kHz AC:25Hz	-25℃~+65℃	IP67

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



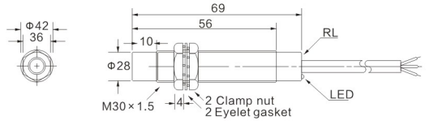
J4-D8V Series(Non-Flush)

Detection Distance	Standard Detection Object	Voltage	Voltage Output	Load Resistance
1-8mm	Iron 18×18×1mm	15-30VDC	0-10VDC	≥4.7kΩ
Current Output	Load Resistance	Response Frequency	IP Protection Level	
4-20mA	≤500Ω	200Hz	IP67	

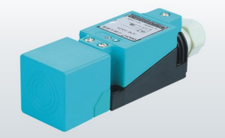


JCW-30QA Series(Non-Flush)

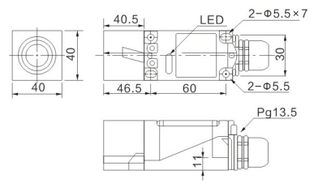
Detection Distance	Standard Detection Object	Voltage	Voltage Output	Load Resistance
1-13mm	Iron 30×30×1mm	15-30VDC	0-10VDC	≥4.7kΩ
Current Output	Load Resistance	Response Frequency	IP Protection Level	
0-20mA	≤500Ω	200Hz	IP67	



JCW-40QA Series(Square Angle Type)

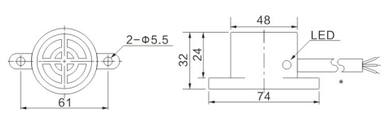


Detection Distance	Standard Detection Object	Voltage	Voltage Output	Load Resistance
1-8mm	Iron 54×54×1mm	15-30VDC	0-10VDC	≥4.7kΩ
Current Output	Load Resistance	Response Frequency	IP Protection Level	
0-20mA	≤500Ω	200Hz	IP67	



JCW-48QA Series(Oblate Type)

Detection Distance	Standard Detection Object	Voltage	Voltage Output	Load Resistance
1-18mm	Iron 65×65×1mm	15-30VDC	0-10VDC	≥4.7kΩ
Current Output	Load Resistance	Response Frequency	IP Protection Level	
0-20mA	≤500Ω	200Hz	IP67	



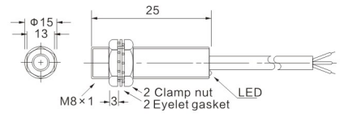
NJK-5001 Series(Flush)

Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：NJK-5001C NC：NJK-5001D	NO：NJK-5001A NC：NJK-5001B

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Φ8×2mm Magnet	1kHz	-25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



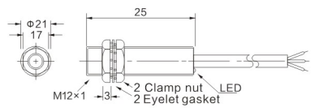
NJK-5002 Series(Flush)

Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：NJK-5002C NC：NJK-5002D	NO：NJK-5002A NC：NJK-5002B
DC 4-Wire	
NO+NC：NJK-5002CD NO+NC：NJK-5002AB	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Φ12×2mm Magnet	1kHz	-25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



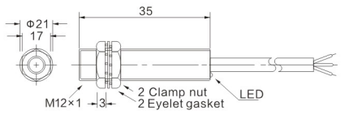
NJK-8002 Series(Flush)

Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：NJK-8002C NC：NJK-8002D	NO：NJK-8002A NC：NJK-8002B
DC 4-Wire	
NO+NC：NJK-8002CD NO+NC：NJK-8002AB	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Φ12×2mm Magnet	1kHz	-25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



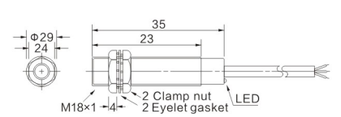
NJK-5003 Series(Flush)

Output Method

DC 3-Wire NPN	DC 3-Wire PNP
NO：NJK-5003C NC：NJK-5003D	NO：NJK-5003A NC：NJK-5003B
DC 4-Wire	
NO+NC：NJK-5003CD NO+NC：NJK-5003AB	

Detection Distance	Standard Detection Object	Response Frequency	Operating Temperature Range	IP Protection Level
10mm ± 10%	Φ18×2mm Magnet	1kHz	-25℃~+65℃	IP65

Circuit protection: N . P . D type: surge absorption, A type: surge absorption



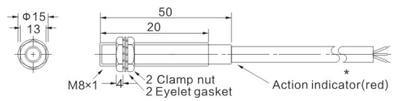
LG8A3-10 Series

Output Method

Magnetic DC/AC 2-wire

NO：LG8A3-10-J/EZ
NC：LG8A3-10-J/DZ

Detection Distance	Continuous load current	Response Frequency	IP Protection Level
10mm±10%	50mA	DC/AC:5-220V	IP65



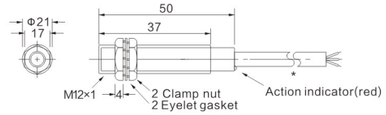
LG12A3-10 Series

Output Method

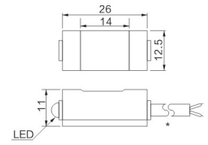
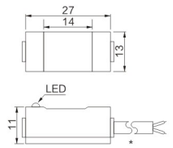
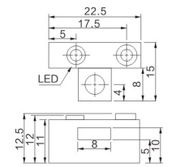
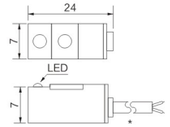
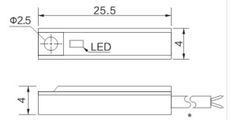
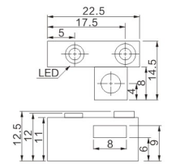
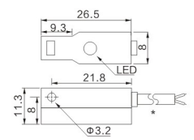
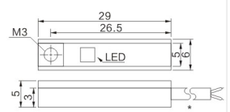
Magnetic DC/AC 2-wire

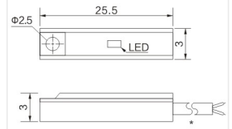
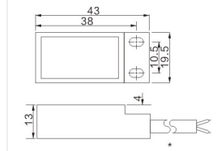
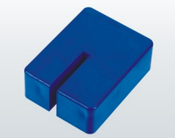
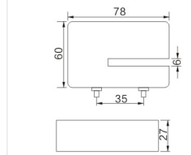
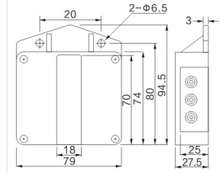
NO：LG12A3-10-J/EZ
NC：LG12A3-10-J/DZ

Detection Distance	Continuous load current	Response Frequency	IP Protection Level
10mm±10%	200mA	DC/AC:5-220V	IP65



Exterior Shape	Turn-buckle	Model	SPEC	Connection Diagram				
				NPN/PNP NO	NPN/PNP NC	NPN/PNP NO+NC	AD/DC dual selection NO	AD/DC dual selection NC
	M8	L1	Three core straight	BK(4) BU(3) BN(1)	BK(4) BK(3) BN(1)		BK(3) BN(1)	BK(4) BN(1)
	M8	L2	Four core straight	BK(4) BU(3) BN(1)	BU(3) WH(2) BN(1)		BK(4) BU(3)	WH(2) BN(1)
	M8	L3	Three core curved	BK(4) BK(3) BN(1)	BK(4) BK(3) BN(1)		BK(3) BN(1)	BK(4) BN(1)
	M8	L4	Four core curved	BK(4) BU(3) BN(1)	BU(3) WH(2) BN(1)		BK(4) BK(3)	WH(2) BN(1)
	M12	L6	Four core straight	BK(4) BU(3) BN(1)	BU(3) WH(2) BN(1)	BK(4) BU(3) WH(2) BN(1)	BK(4) BU(3)	WH(2) BN(1)
	M12	L7	Four core curved with LED					
	M12	L8	Four core relay					

Product picture	Name	External dimensions	Continuous load current	Response Frequency	IP Protection Level
	CS1-F		100mA	DC/AC:5-220V	IP67
	CS1-U		100mA	DC/AC:5-220V	IP67
	CS1-J		100mA	DC/AC:5-220V	IP67
	CS1-S		100mA	DC/AC:5-220V	IP67
	CS1-G (NO)		100mA	DC/AC:5-220V	IP67
	D-A73 (NO)		100mA	DC/AC:5-220V	IP67
	D-C73 (NO)		100mA	DC/AC:5-220V	IP67
	D-Z73 (NO)		100mA	DC/AC:5-220V	IP67

Product picture	Name	External Dimensions	Continuous load current	Response Frequency	IP Protection Level
	D-A93 (NO)		100mA	DC/AC:5-220V	IP67
	LJC1-3/24 (NO)		100mA	DC/AC:5-220V	IP67
	MS-01 (NC)		300mA	DC/AC:5-220V	IP67
	YG-1 (NC)		300mA	DC/AC:5-220V	IP67

High-speed Detection of Metal Objects such as Screws and Iron Needles

- Detection Distance:According to the size of the inner hole
- Detection objects:screws, nuts, Iron needles, etc.
- Output Method:NPN, PNP, NO, NC
- Working Voltage:5 – 30VDC
- Output Current:200mA
- Shell Material:ABS

HO1-06 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO1-06N1 NC：HO1-06N2	NO：HO1-06P1 NC：HO1-06P2
DC 4-Wire	
NO：HO1-06N3 NC：HO1-06P3	
Standard Detection Object：≥0.5mm	

HO1-10 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO1-10N1 NC：HO1-10N2	NO：HO1-10P1 NC：HO1-10P2
DC 4-Wire	
NO：HO1-10N3 NC：HO1-10P3	
Standard Detection Object：≥1mm	

HO-10 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO-10N1 NC：HO-10N2	NO：HO-10P1 NC：HO-10P2
DC 4-Wire	
NO：HO-10N3 NC：HO-10P3	
Standard Detection Object：≥1mm	

HO-12 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO-12N1 NC：HO-12N2	NO：HO-12P1 NC：HO-12P2
DC 4-Wire	
NO：HO-12N3 NC：HO-12P3	
Standard Detection Object：≥1.5mm	

HO-14 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO-14N1 NC：HO-14N2	NO：HO-14P1 NC：HO-14P2
DC 4-Wire	
NO：HO-14N3 NC：HO-14P3	
Standard Detection Object：≥2mm	

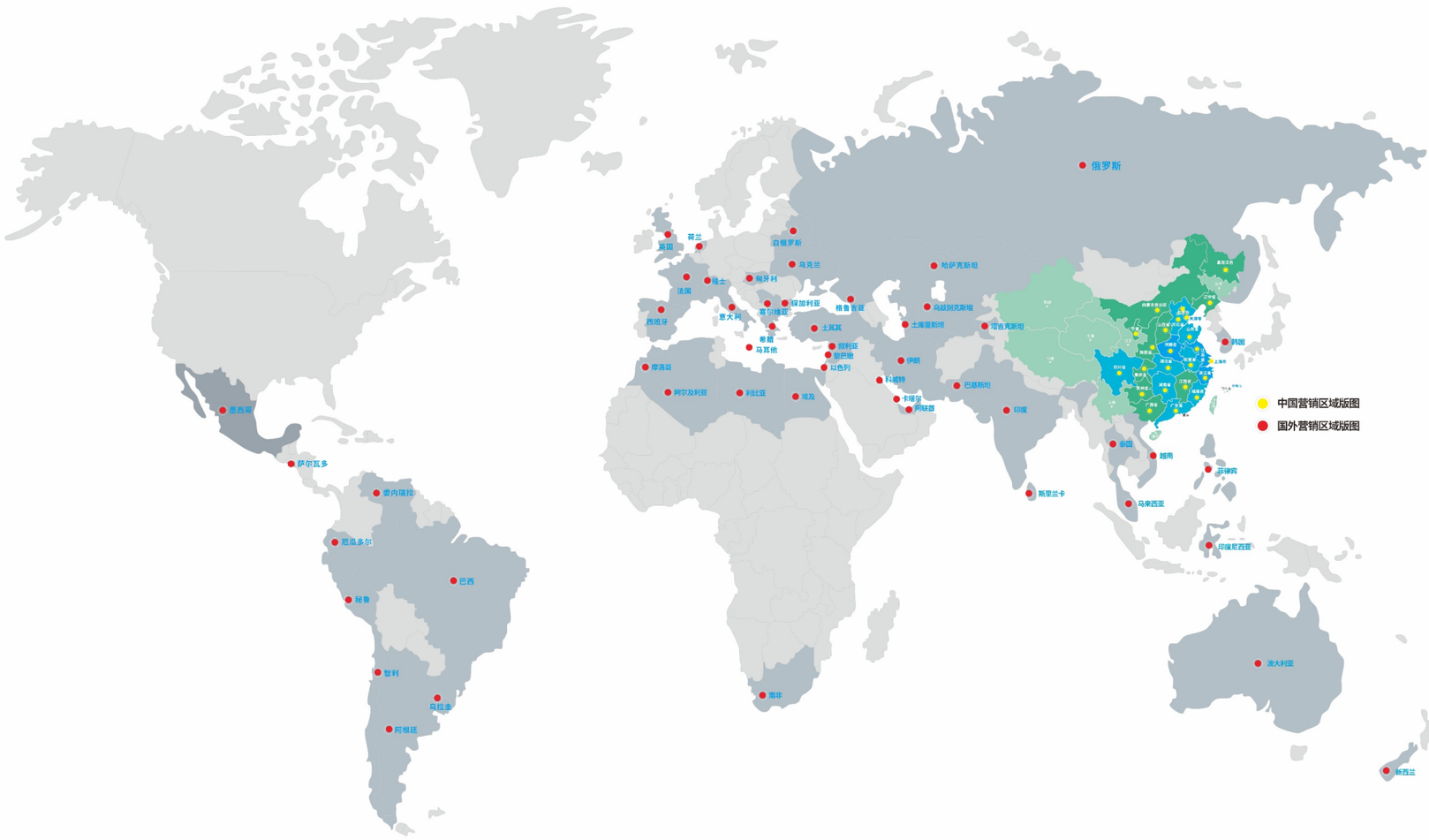
HO-21 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO-21N1 NC：HO-21N2	NO：HO-21P1 NC：HO-21P2
DC 4-Wire	
NO：HO-21N3 NC：HO-21P3	
Standard Detection Object：≥2.5mm	

HO-30 Series

Output Method	
DC 3-Wire NPN	DC 3-Wire PNP
NO：HO-30N1 NC：HO-30N2	NO：HO-30P1 NC：HO-30P2
DC 4-Wire	
NO：HO-30N3 NC：HO-30P3	
Standard Detection Object：≥4mm	

Marketing Map



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