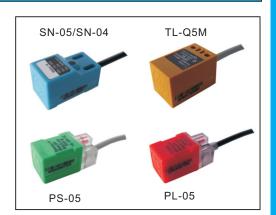
Proximity sensor square type AC and DC POWER SUPPLY

Proximity Sensor

TL/SN/PL/PS Serial

High accuracy, square type proximity Sensor.

- High accuracy, Square type
- ■AC and DC power supply
- NPN and PNP
- ■NO and NC
- Various size
- Front detecting surface
- 5mm sensing distance



Ordering Information(SN-05/SN-04)

Size:18mm*18mm*35mm Sensing distance:4mm Size:18mm*18mm*35mm Sensing distance: 5mm

SN04-N: DC 10-30V, NPN NO, Three wire SN04-N2: DC 10-30V, NPN NC, Three wire SN04-P: DC 10-30V, PNP NO, Three wire SN04-P2: DC 10-30V, PNP NC, Three wire SN04-D: DC 10-30V, NO, two wire SN04-D2: DC 10-30V, NC, two wire SN04-A: AC 220V, NO, two wire

SN04-A2: AC 220V, NC, two wire

SN05-N: DC 10-30V, NPN NO, Three wire SN05-N2: DC 10-30V, NPN NC, Three wire SN05-P: DC 10-30V, PNP NO, Three wire SN05-P2: DC 10-30V, PNP NC, Three wire SN05-D: DC 10-30V, NO, two wire SN05-D2: DC 10-30V, NC, two wire SN05-A: AC 220V, NO, two wire SN05-A2: AC 220V, NC, two wire

Ordering Information(TL-Q5M)

Size:17mm*17mm*28mm Sensing distance:5mm

TL-Q5MC1: DC 10-30V, NPN NO, Three wire TL-Q5MC2: DC 10-30V, NPN NC, Three wire TL-Q5MB1: DC 10-30V, PNP NO, Three wire TL-Q5MB2: DC 10-30V, PNP NC, Three wire TL-Q5MD1: DC 10-30V, NO, two wire TL-Q5MD2: DC 10-30V, NC, two wire TL-Q5MY1: AC 220V, NO, two wire

TL-Q5MY2: AC 220V, NC, two wire



Ordering Information(PS-05)

Size:18mm*18mm*28mm Sensing distance:5mm

PS-05N: DC 10-30V, NPN NO, Three wire PS-05N2: DC 10-30V, NPN NC, Three wire PS-05P: DC 10-30V, PNP NO, Three wire PS-05P2: DC 10-30V, PNP NC, Three wire PS-05D2: DC 10-30V, NO, two wire PS-05D2: DC 10-30V, NC, two wire PS-05A: AC 220V. NO, two wire



Ordering Information(PL-05)

PS-05A2: AC 220V. NC. two wire

Size:18mm*18mm*35mm Sensing distance:5mm

PL-05A:

PL-05A2:

PL-05N: DC 10-30V, NPN NO, Three wire PL-05N2: DC 10-30V, NPN NC, Three wire PL-05P: DC 10-30V, PNP NO, Three wire PL-05P2: DC 10-30V, PNP NC, Three wire PL-05D: DC 10-30V, NO, Two wire PL-05D2: DC 10-30V, NC, Two wire

AC 220 V, NO, Two wire

AC 220 V, NC, Two wire



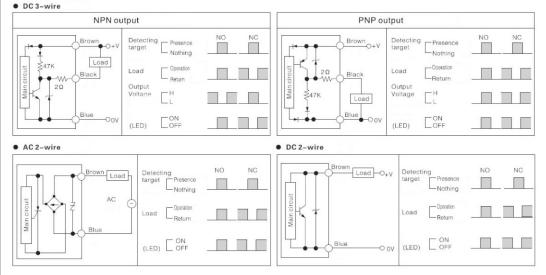
Specifications(For AC Power Supply)

Power Supply	220 VAC
Residual Voltage	Maximum 10V
Current consumption	Maximum 2.2mA
Hysteresis	Maximum 10% of detecting distance
Control Output	Maximum 200mA
Protection	Reverse polarity protection/Surge absorber
Power supply indicator	Green LED
Operating indicator	Red Led
Insulation resistance	Min . 50 Mega Ohm(500VDC)
Dielectric strength	1500VAC (50/60HZ 1Min)
Operating temp	-20°C-70°C
Ambient humidity	35 to 95%RH
Material	Case:Brass Detecting surface:ABS

Specifications(For DC Power Supply)

Power Supply	10-30 VDC
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Residual Voltage	Maximum 1.5V(DC three wire)/6V(DC two wire)
Current consumption	Maximum 12mA(DC three wire)/0.9mA(DC two wire)
Hysteresis	Maximum 10% of detecting distance
Control Output	Maximum 200mA(DC three wire)/Maximum 100mA(DC two wire)
Protection	Reverse polarity protection/Surge absorber
Power supply indicator	Green LED
Operating indicator	Red Led
Insulation resistance	Min . 50 Mega Ohm(500VDC)
Dielectric strength	1500VAC (50/60HZ 1Min)
Operating temp	-20°C-70°C
Ambient humidity	35 to 95%RH
Material	Case:Brass Detecting surface:ABS

Wiring details



Remark: Be sure to correctly wire the sensor, otherwise may cause the malfunction

Cautions

- 1:Do not use the sensor under the environment with explosive or ignition
- 2: Never disassemble, repair nor tamper with the product
- 3: Keep the supply voltage within the specified range
- 4:Do not connect the load with big inrush which is exceed the rated maximum inrush current.
- 5:Do not use the product under following conditions
- 1):In the place humidity is high and condensation may occur
- 2):In the place where corrosive gas exists
- 3):In the place where vibration or shock is directly transmitted to the product

- 6:Connection or mounting
- 1)Be sure to keep the power supply within the range of rated power supply
- 2) For extending wires, use a cable 0.3 mm2 min and 100 m Max in length
- 3)Do not pull wire hardly
- 4)When using a commercially available switching power regulator, be sure to ground the FG(frame ground)terminals
- 7:When turning off the power, output pulse may be generated, we recommend turning off the power supply of the load or load line first.
- 8:AC two wire type and DC two wire type
 - 1)The load must be serial connected with the sensors otherwise internal components may be damaged,