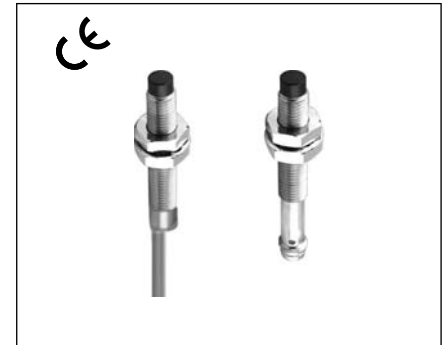
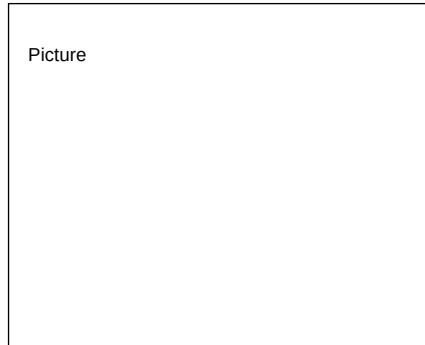


ANALOG INDUCTIVE PROXIMITY SENSOR (VOLTAGE OUTPUT)

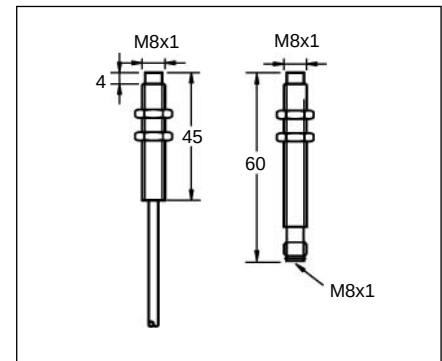
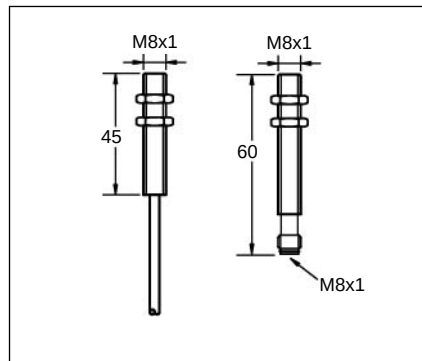
Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

M8
●
0.1-1.5 mm
Nickel plated brass
○

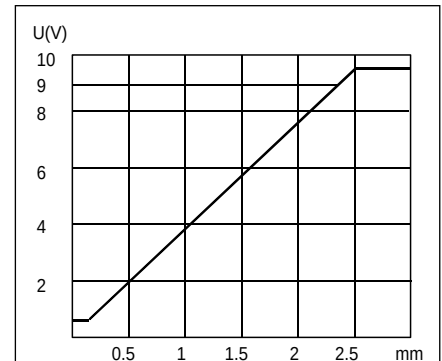
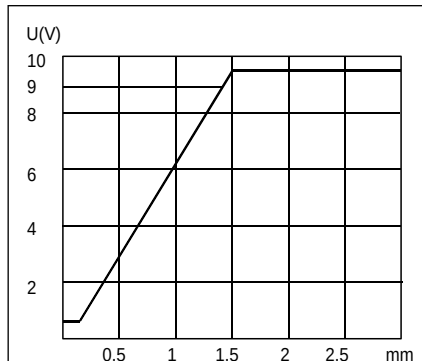
M8
○
0.1-2.5 mm
Nickel plated brass
○



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Voltage/Load Resistor
Linearity
Repeat Accuracy
Ambient Temperature
Temperature Drift
Short Circuit Protection
Reverse Polarity Protection
Protection Category
Output Signal
Switch Frequency Max.
EMC
Shock / Vibration
Material Active Face
Connecting type
Weight

<10%
<35mA
0-10VDC / ≥2K Ω
<5%(Sr)
0.02mm
-25°C - +70°C
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (2.9 ∅ 3x0.15)
approx.40 g
M8 connector
approx.18 g

<10%
<35mA
0-10VDC / ≥2K Ω
<5%(Sr)
0.02mm
-25°C - +70°C
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (2.9 ∅ 3x0.15)
approx.40 g
M8 connector
approx.18 g

Analog Voltage Output (18-30VDC)

IBS-M81.5G-V5VN2	22*	IBS-M81.5G-V5PN3
------------------	-----	------------------

IBN-M82.5G-V5VN2	22*	IBN-M82.5G-V5PN3
------------------	-----	------------------

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

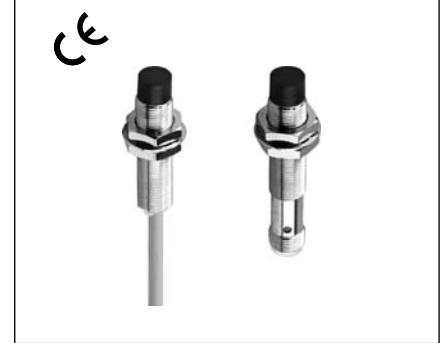
ANALOG INDUCTIVE PROXIMITY SENSOR (VOLTAGE OUTPUT)

Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

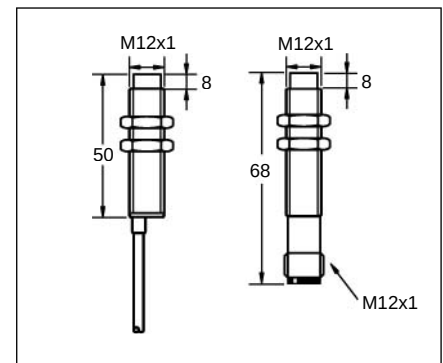
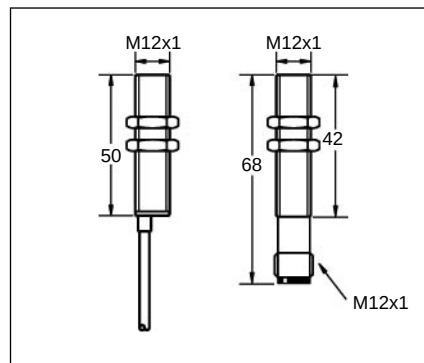
M12
●
0.1-3.0 mm
Nickel plated brass
○

M12
○
0.1-4 mm
Nickel plated brass
○

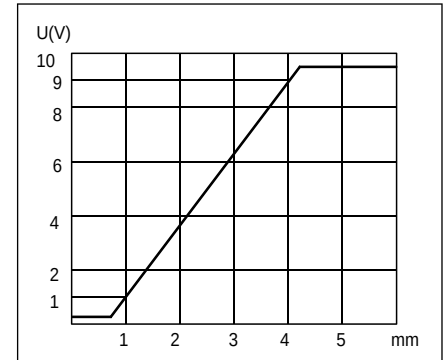
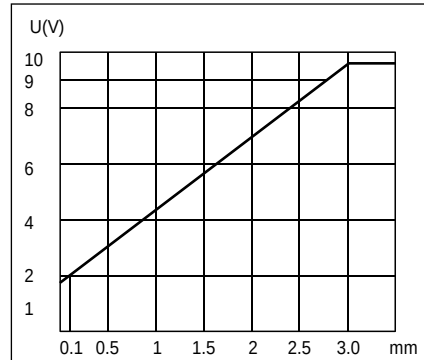
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Voltage/Load Resistor
Linearity
Repeat Accuracy
Ambient Temperature
Temperature Drift
Short Circuit Protection
Reverse Polarity Protection
Protection Category
Output Signal
Switch Frequency Max.
EMC
Shock / Vibration
Material Active Face
Connecting type
Weight

<10%
<35mA
0-10VDC/≥2K Ω
<5%(Sr)
0.02mm
-25℃- +70℃
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (4.0 φ 3x0.25)
approx.65 g
M12 connector
approx.30 g

<10%
<35mA
0-10VDC / ≥2K Ω
<5%(Sr)
0.02mm
-25℃- +70℃
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (4.0 φ 3x0.25)
approx.65 g
M12 connector
approx.30 g

Analog Voltage Output (18-30VDC)

IBS-M1203G-V5V2	22*	IBS-M1203G-V5EN4
-----------------	-----	------------------

IBN-M1204G-V5V2	22*	IBN-M1204G-V5EN4
-----------------	-----	------------------

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

ANALOG INDUCTIVE PROXIMITY SENSOR (VOLTAGE OUTPUT)

Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

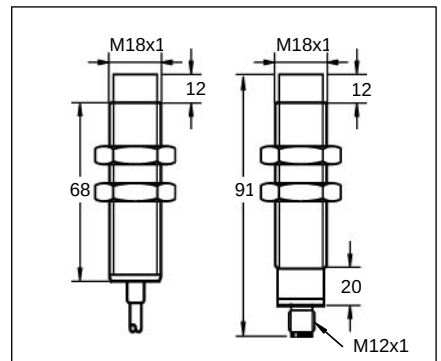
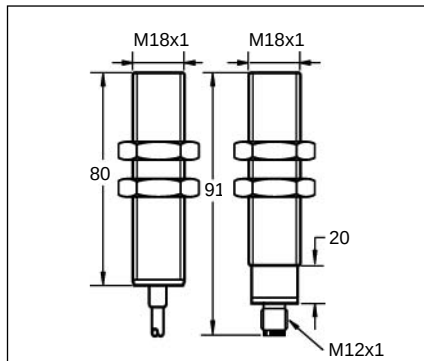
M18
●
1-4 mm
Nickel plated brass
○

M18
○
1-7 mm
Nickel plated brass
○

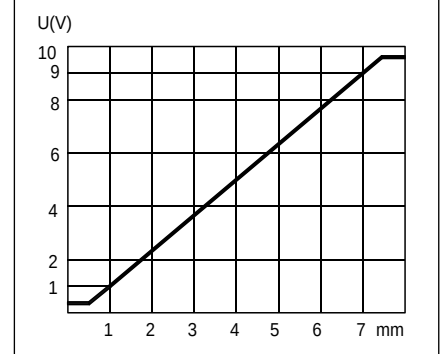
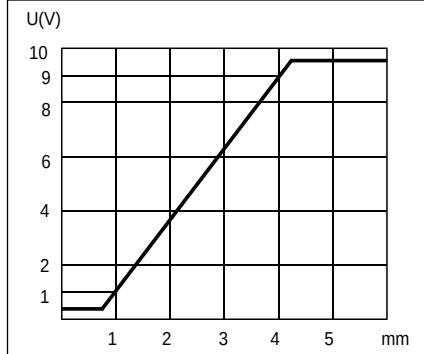
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Voltage/Load Resistor
Linearity
Repeat Accuracy
Ambient Temperature
Temperature Drift
Short Circuit Protection
Reverse Polarity Protection
Protection Category
Output Signal
Switch Frequency Max.
EMC
Shock / Vibration
Material Active Face
Connecting type
Weight

<10%
<15mA
0-10VDC / $\geq 4.7K \Omega$
<10%(Sr)
0.02mm
-25°C - +70°C
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (5.0 ϕ 3x0.34)
M12 connector
approx.145 g
approx.70 g

<10%
<15mA
0-10VDC / $\geq 4.7K \Omega$
<10%(Sr)
0.02mm
-25°C - +70°C
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (5.0 ϕ 3x0.34)
M12 connector
approx.140 g
approx.70 g

Analog Voltage Output (18-30VDC)

IBS-M1804G-V5VN2	22*	IBS-M1804G-V5EN4
------------------	-----	------------------

IBN-M1807G-V5VN2	22*	IBN-M1807G-V5EN4
------------------	-----	------------------

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

ANALOG INDUCTIVE PROXIMITY SENSOR (VOLTAGE OUTPUT)

Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

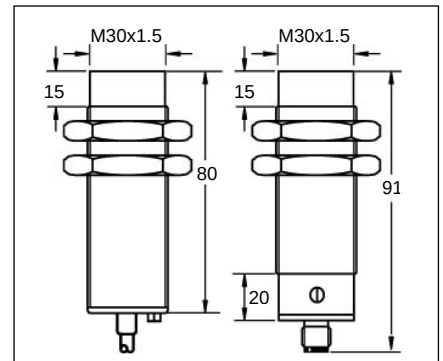
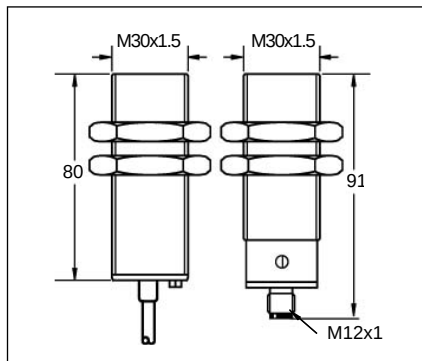
M30
●
5-10 mm
Nickel plated brass
○

M30
○
7-14 mm
Nickel plated brass
○

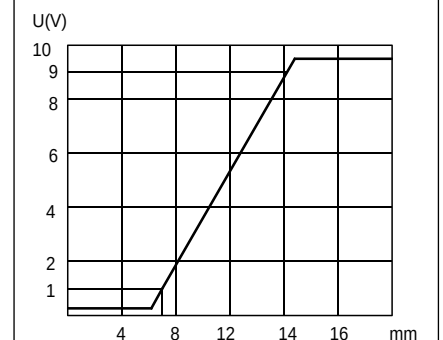
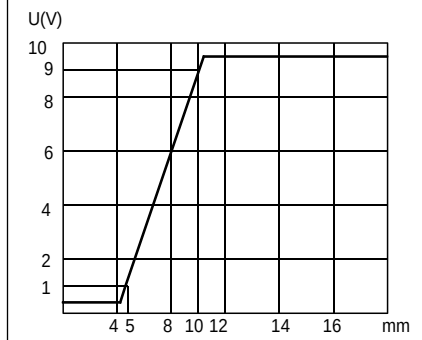
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Voltage/Load Resistor
Linearity
Repeat Accuracy
Ambient Temperature
Temperature Drift
Short Circuit Protection
Reverse Polarity Protection
Protection Category
Output Signal
Switch Frequency Max.
EMC
Shock / Vibration
Material Active Face
Connecting type
Weight

<10%
<15mA
0-10VDC / ≥4.7K Ω
<10%(Sr)
0.02mm
-25℃ - +70℃
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (5.0 φ 3x0.34)
approx.252 g
M12 connector
approx.188 g

<10%
<15mA
0-10VDC / ≥4.7K Ω
<10%
0.02mm
-25℃ - +70℃
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
2M Cable (5.0 φ 3x0.34)
approx.250 g
M12 connector
approx.185 g

Analog Voltage Output (18-30VDC)

IBS-M3010G-V5VN2	22*	IBS-M3010G-V5EN4
------------------	-----	------------------

IBN-M3014G-V5VN2	20*	IBN-M3014G-V5EN4
------------------	-----	------------------

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

ANALOG INDUCTIVE PROXIMITY SENSOR (VOLTAGE OUTPUT)

Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

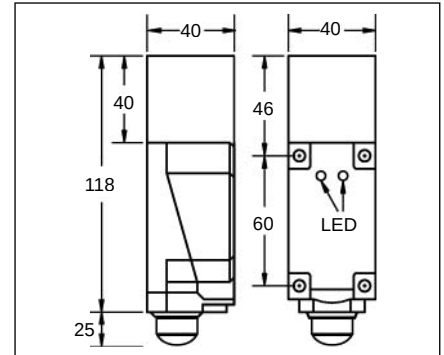
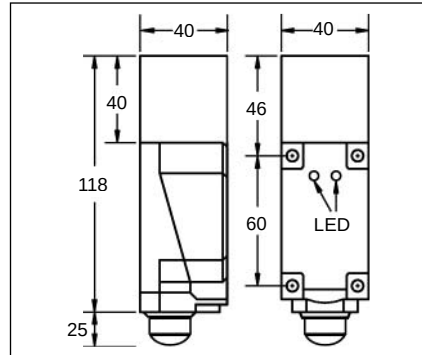
Q40
●
6-15 mm
PBT
○

Q40
○
7-20 mm
PBT
○

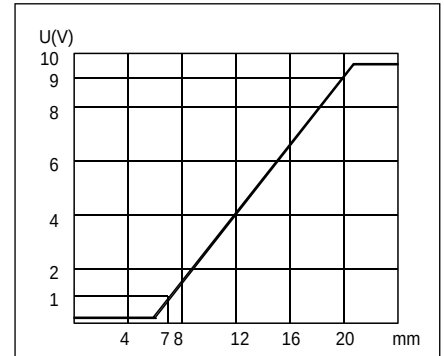
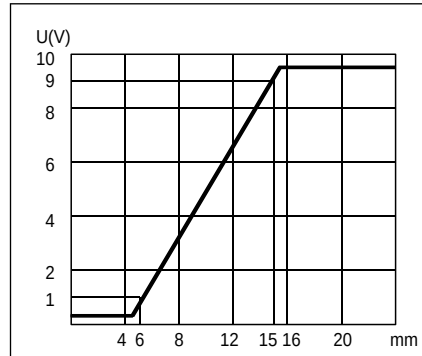
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Voltage/Load Resistor
Linearity
Repeat Accuracy
Ambient Temperature
Temperature Drift
Short Circuit Protection
Reverse Polarity Protection
Protection Category
Output Signal
Switch Frequency Max.
EMC
Shock / Vibration
Material Active Face
Connecting type
Weight

<10%
<15mA
0-10VDC / ≥4.7K Ω
<10%(Sr)
0.02mm
-25℃ - +70℃
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
Terminal
approx.245 g

<10%
<15mA
0-10VDC / ≥4.7K Ω
<10%(Sr)
0.02mm
-25℃ - +70℃
<5%(Sr)
-
Yes
IP67
PNP-ANALOG
100Hz
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2, Part 7.4.1 / IEC 60947-5-2, Part 7.4.2
PBT
Terminal
approx.245 g

Analog Voltage Output (18-30VDC)

IPS-Q4015G-V5TN	22*
-----------------	-----

IPN-Q4020G-V5TN	22*
-----------------	-----

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.