

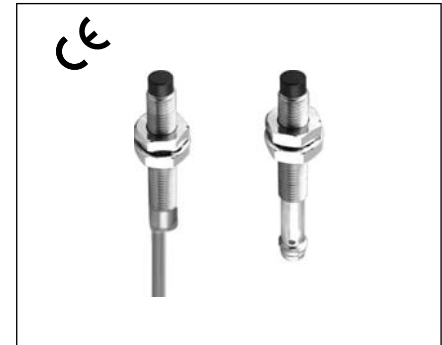
ANALOG INDUCTIVE PROXIMITY SENSOR (CURRENT OUTPUT)

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

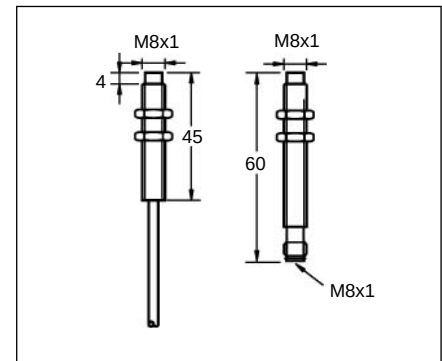
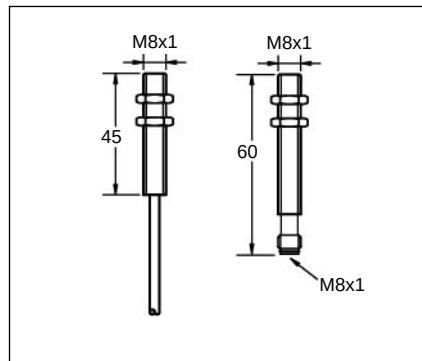
M8
●
0.1-1.5 mm
Nickel plated brass
○

M8
○
0.1-2.5 mm
Nickel plated brass
○

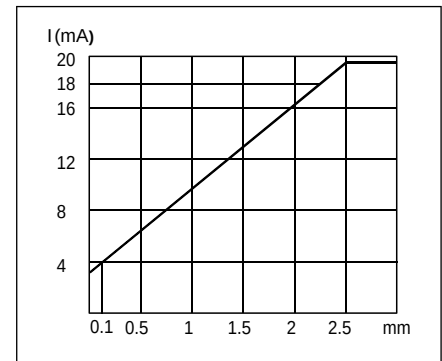
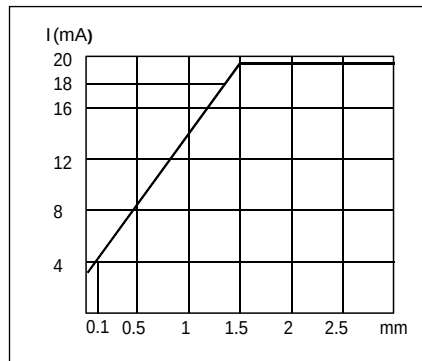
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Current/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
4-20mA / 400 Ω Max.
<5%
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
4-20mA / 400 Ω Max.
<5%
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 Current Output (18-30VDC)

IBS-M81.5G-I5VN2	20*	IBS-M81.5G-I5PN3
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IBN-M82.5G-I5VN2	20*	IBN-M82.5G-I5PN3
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* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

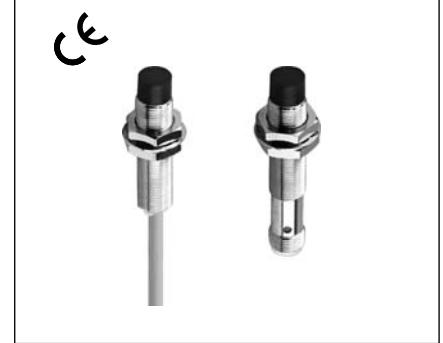
ANALOG INDUCTIVE PROXIMITY SENSOR (CURRENT OUTPUT)

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

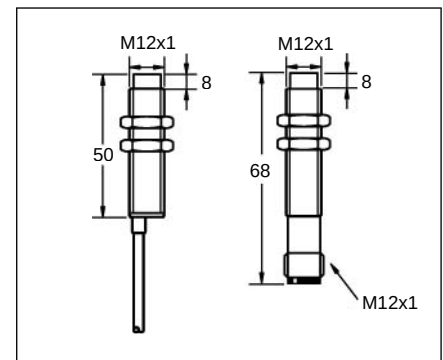
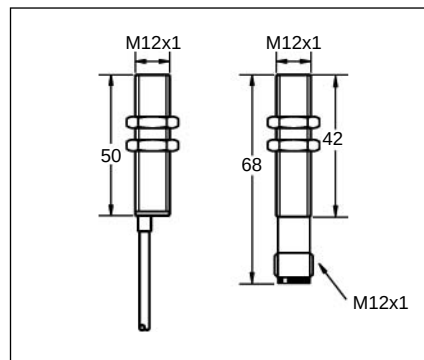
M12
●
0.1-3.0 mm
Nickel plated brass
○

M12
○
0.1-4 mm
Nickel plated brass
○

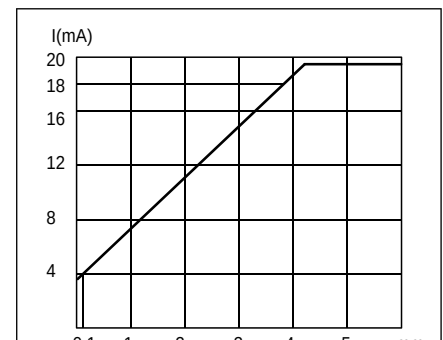
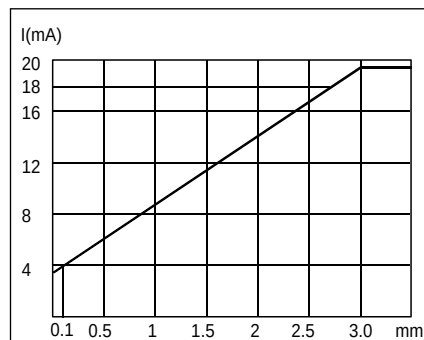
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Current/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
4-20mA / 400 Ω Max.
<5%
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 (40 φ 3x0.25)
M12 connector
approx.65 g
approx.30 g

<10%
<35mA
4-20mA / 400 Ω Max.
<5%
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)
M12 connector
approx.65 g
approx.30 g

Analog Current Output (18-30VDC)

IBS-M1203G-I5VN2
20*
IBS-M1203G-I5EN4

IBN-M1204G-I5VN2
20*
IBN-M1204G-I5EN4

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

ANALOG INDUCTIVE PROXIMITY SENSOR (CURRENT OUTPUT)

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

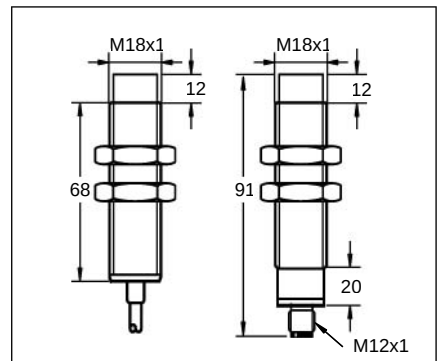
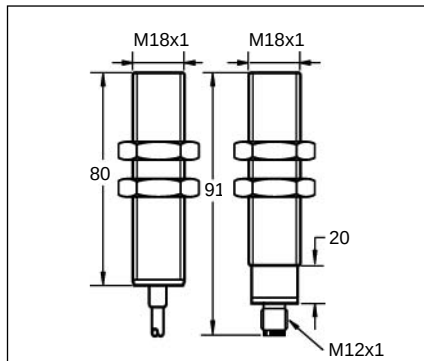
M18
●
1-4 mm
Nickel plated brass
○

M18
○
1-7 mm
Nickel plated brass
○

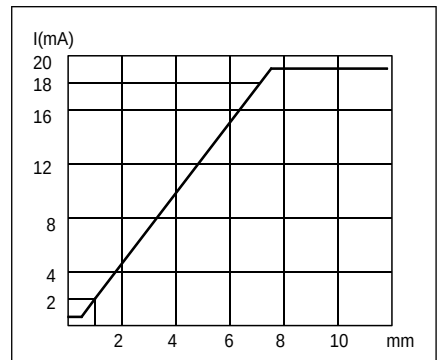
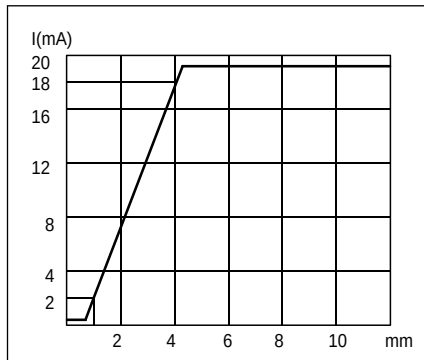
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Current/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
0-20mA / 200 Ω Max.
<10%
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 ∅ 3x0.34)
approx.145 g
M12 connector
approx.70 g

<10%
<15mA
0-20mA / 200 Ω Max.
<10%
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 ∅ 3x0.34)
approx.140 g
M12 connector
approx.70 g

Analog Current Output (18-30VDC)

IBS-M1804G-I5VN2	20*	IBS-M1804G-I5EN4
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IBN-M1807G-I5VN2	20*	IBN-M1807G-I5EN4
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* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

ANALOG INDUCTIVE PROXIMITY SENSOR (CURRENT OUTPUT)

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

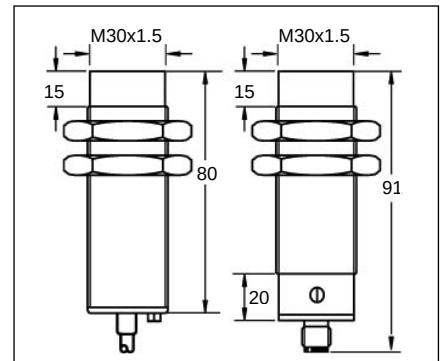
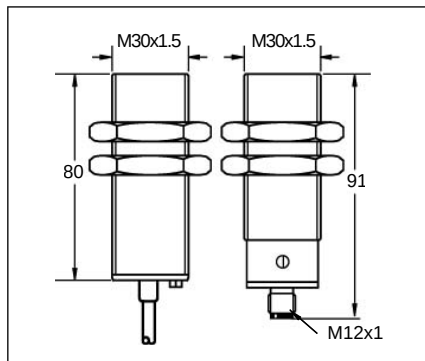
M30
●
5-10 mm
Nickel plated brass
○

M30
○
7-14 mm
Nickel plated brass
○

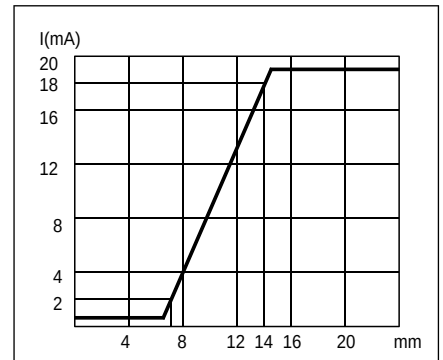
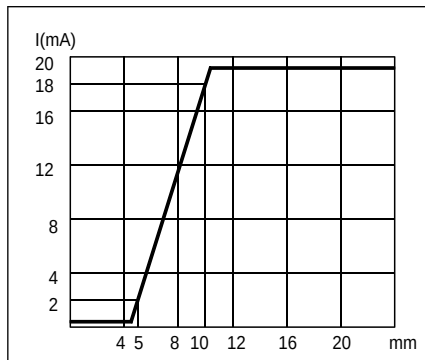
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Current/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
0-20mA / 200 Ω Max.
<10%
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)
approx.252 g
M12 connector
approx.188 g

<10%
<15mA
0-20mA / 200 Ω Max.
<10%
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)
approx.250 g
M12 connector
approx.185 g

Analog Current Output (18-30VDC)

IBS-M3010G-I5VN2	20*	IBS-M3010G-I5EN4
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IBN-M3014G-I5VN2	20*	IBN-M3014G-I5EN4
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* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

ANALOG INDUCTIVE PROXIMITY SENSOR (CURRENT OUTPUT)

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

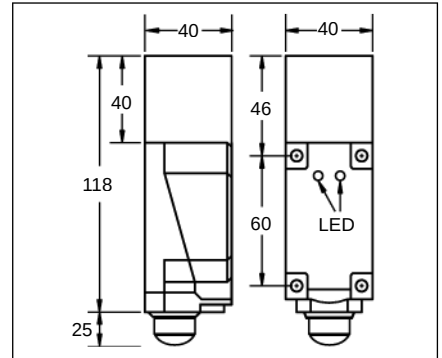
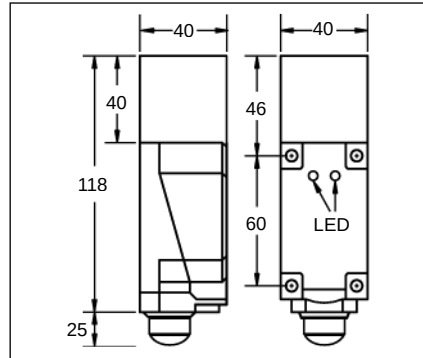
Q40
●
6-15 mm
PBT
○

Q40
○
7-20 mm
PBT
○

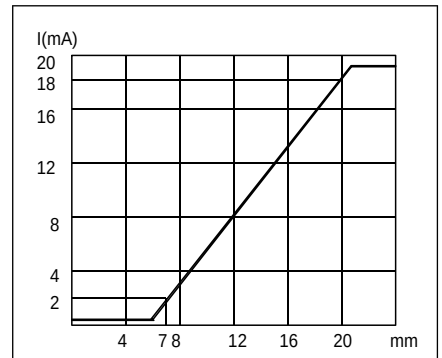
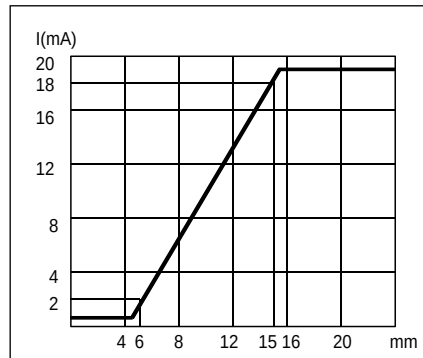
Picture



Dimensions (unit: mm)



Characteristics



Max. Ripple
No Load Current
Output Current/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
0-20mA / 200 Ω Max.
<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
Terminal
approx.245 g

<10%
<15mA
0-20mA / 200 Ω Max.
<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
Terminal
approx.245 g

Analog Current Output (18-30VDC)	
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IPS-Q4015G-I5TN	20*
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IPN-Q4020G-I5TN	20*
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* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.