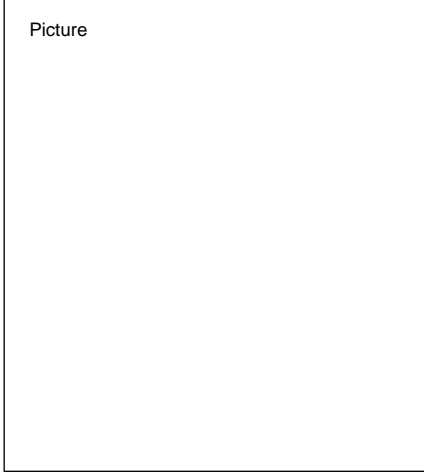


EXTENDED RANGE PROXIMITY SENSOR DC 2WIRE/4WIRE (10-60VDC/10-30VDC)

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



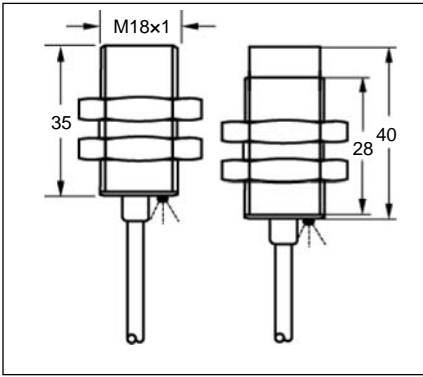
Dimensions (unit: mm)

Ripple	
No Load Current	
Max. Load current	
Leakage Current	
Voltage Drop	
Switching Frequency	
Response Time	
Switching Hysteresis	
Repeat Accuracy	
Protection Category	
Operating Temperature	
Temperature Drift	
Short Circuit Protection	
Overload Trip Point	
Material Active Face	

Connecting type	
Weight	

DC 2 wire 10-60V N.O.	
DC 2 wire 10-60V N.C.	
DC 4 wire 10-30V PNP (N.O.+N.C.)	
DC 4 wire 10-30V NPN (N.O.+N.C.)	

M18	
●	○
8 mm	16 mm
Nickel plated brass	
●	

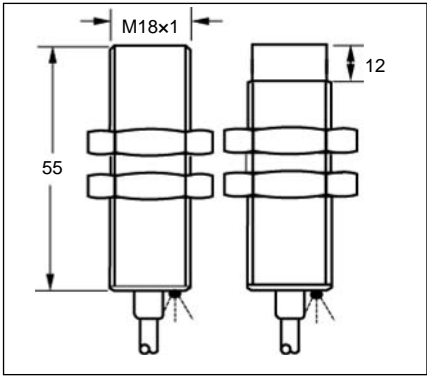


Ripple	<10%
No Load Current	<10mA
Max. Load current	200mA
Leakage Current	<0.01mA
Voltage Drop	<2.0V
Switching Frequency	500Hz 150Hz
Response Time	0.5ms/0.5ms 1ms/1ms
Switching Hysteresis	<15%(Sr)
Repeat Accuracy	<1.0%(Sr)
Protection Category	IP67
Operating Temperature	-25°C - +70°C
Temperature Drift	<10%(Sr)
Short Circuit Protection	Yes
Overload Trip Point	220mA
Material Active Face	PBT

Connecting type	2M Cable (5.0 ϕ 2x0.5 or 4x0.25)
Weight	approx.135 g

IBS-M1808C-A4VS2	7	ISN-M1816C-A4VS2
IBS-M1808C-B4VS2	8	ISN-M1816C-B4VS2
IBS-M1808P-C1VS2	6	ISN-M1816P-C1VS2
IBS-M1808N-C1VS2	5	ISN-M1816N-C1VS2

M18	
●	○
8 mm	16 mm
Nickel plated brass	
●	



Ripple	<10%
No Load Current	<10mA
Max. Load current	200mA
Leakage Current	<0.01mA
Voltage Drop	<2.0V
Switching Frequency	500Hz 150Hz
Response Time	0.5ms/0.5ms 1ms/1ms
Switching Hysteresis	<15%(Sr)
Repeat Accuracy	<1.0%(Sr)
Protection Category	IP67
Operating Temperature	-25°C - +70°C
Temperature Drift	<10%(Sr)
Short Circuit Protection	Yes
Overload Trip Point	220mA
Material Active Face	PBT

Connecting type	2M Cable (5.0 ϕ 2x0.5 or 4x0.25)
Weight	approx.150 g

IBS-M1808C-A4VN2	7	ISN-M1816C-A4VN2
IBS-M1808C-B4VN2	8	ISN-M1816C-B4VN2
IBS-M1808P-C1VN2	6	ISN-M1816P-C1VN2
IBS-M1808N-C1VN2	5	ISN-M1816N-C1VN2

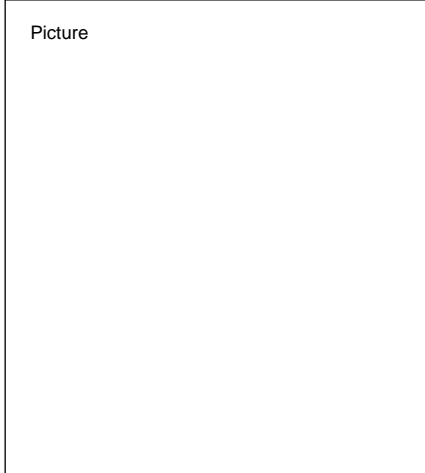
* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 to Page 015.

EXTENDED RANGE PROXIMITY SENSOR DC 2WIRE/4WIRE (10-60VDC/10-30VDC)

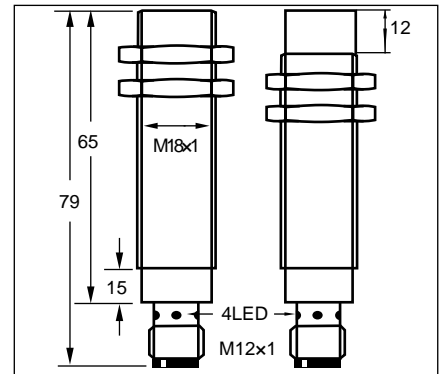
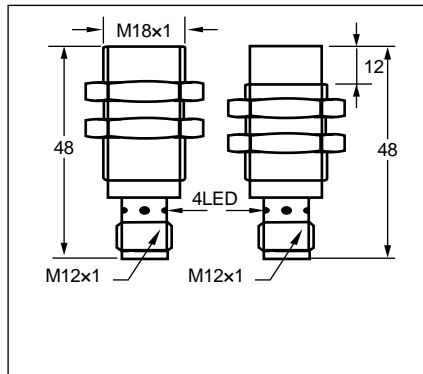
Diameter
● Shielded ○ non-Shielded
Switching Distance, Sn: mm
Housing Material
● With LED ○ Without LED

M18	
● ○	
8 mm	16 mm
Nickel plated brass	
●	

M18	
● ○	
8 mm	16 mm
Nickel plated brass	
●	



Dimensions (unit: mm)



Ripple	<10%
No Load Current	<10mA
Max. Load current	200mA
Leakage Current	<0.01mA
Voltage Drop	<2.0V
Switching Frequency	500Hz 150Hz
Response Time	0.5ms/0.5ms 1ms/1ms
Switching Hysteresis	<15%(Sr)
Repeat Accuracy	<1.0%(Sr)
Protection Category	IP67
Operating Temperature	-25°C - +70°C
Temperature Drift	<10%(Sr)
Short Circuit Protection	Yes
Overload Trip Point	220mA
Material Active Face	PBT

<10%
<10mA
200mA
<0.01mA
<2.0V
500Hz 150Hz
0.5ms/0.5ms 1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PBT

<10%
<10mA
200mA
<0.01mA
<2.0V
500Hz 150Hz
0.5ms/0.5ms 1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PBT

Connecting type	M12 connector
Weight	approx.52 g

M12 connector
approx.52 g

M12 connector
approx.95 g

DC 2 wire 10-60V N.O.
DC 2 wire 10-60V N.C.
DC 4 wire 10-30V PNP (N.O.+N.C.)
DC 4 wire 10-30V NPN (N.O.+N.C.)

IBS-M1808C-A4ES4	7*	IBN-M1816C-A4ES4
IBS-M1808C-B4ES4	8	IBN-M1816C-B4ES4
IBS-M1808P-C1ES4	6	IBN-M1816P-C1ES4
IBS-M1808N-C1ES4	5	IBN-M1816N-C1ES4

IBS-M1808C-A4EN4	7*	IBN-M1816C-A4EN4
IBS-M1808C-B4EN4	8	IBN-M1816C-B4EN4
IBS-M1808P-C1EN4	6	IBN-M1816P-C1EN4
IBS-M1808N-C1EN4	5	IBN-M1816N-C1EN4

* Wiring diagram number. Please see the relevant wiring diagram shown on Page 013 and Page 014.