

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

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

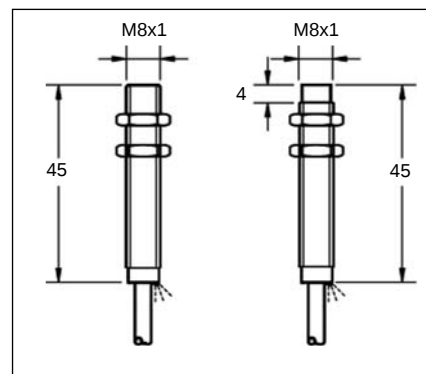
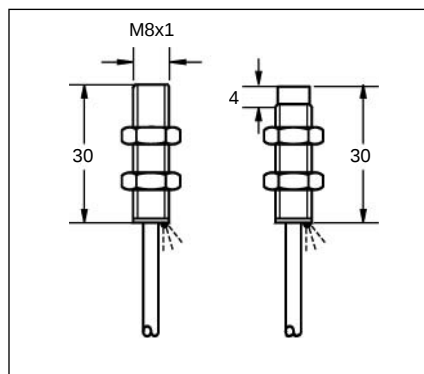
M8
● ○
1 mm 2 mm
Stainless steel
●

M8
● ○
1 mm 2 mm
Stainless steel
●

Picture



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

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

Connecting type
Weight

2M Cable (2.9 ϕ 3x0.15)
approx.40 g

2M Cable (2.9 ϕ 3x0.15)
approx.53 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

WSS-M801N-A1VS2	1*	WSN-M802N-A1VS2
WSS-M801N-B1VS2	2	WSN-M802N-B1VS2
WSS-M801P-A1VS2	3	WSN-M802P-A1VS2
WSS-M801P-B1VS2	4	WSN-M802P-B1VS2

WSS-M801N-A1VN2	1*	WSN-M802N-A1VN2
WSS-M801N-B1VN2	2	WSN-M802N-B1VN2
WSS-M801P-A1VN2	3	WSN-M802P-A1VN2
WSS-M801P-B1VN2	4	WSN-M802P-B1VN2

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

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

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

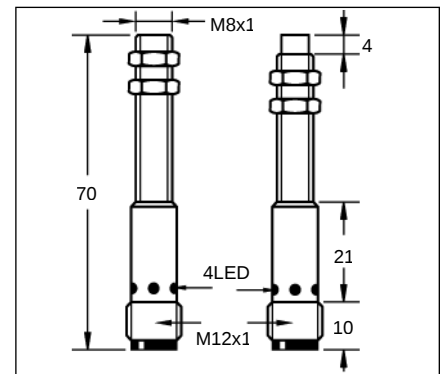
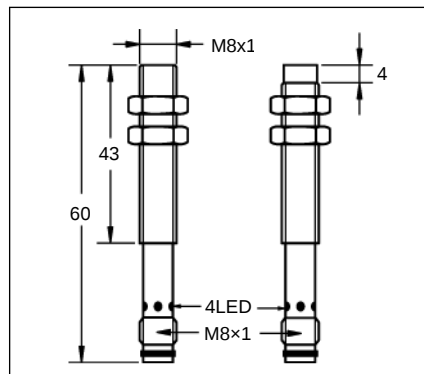
M8	
●	○
1 mm	2 mm
Stainless steel	
●	

M8	
●	○
1 mm	2 mm
Stainless steel	
●	

Picture



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

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

Connecting type
Weight

M8 connector
approx.18 g

M12 connector
approx.25 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

WSS-M801N-A1PN3	1*	WSN-M802N-A1PN3
WSS-M801N-B1PN3	2	WSN-M802N-B1PN3
WSS-M801P-A1PN3	3	WSN-M802P-A1PN3
WSS-M801P-B1PN3	4	WSN-M802P-B1PN3

WSS-M801N-A1EN4	1*	WSN-M802N-A1EN4
WSS-M801N-B1EN4	2	WSN-M802N-B1EN4
WSS-M801P-A1EN4	3	WSN-M802P-A1EN4
WSS-M801P-B1EN4	4	WSN-M802P-B1EN4

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

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

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

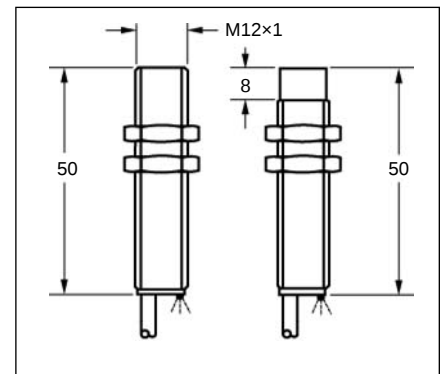
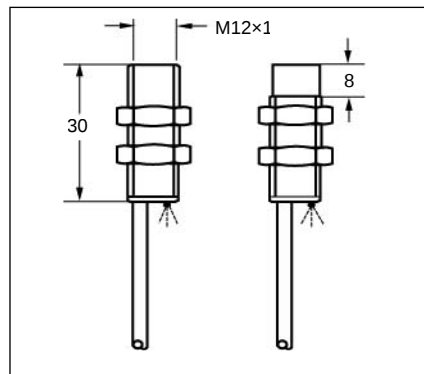
M12	
●	○
2 mm	4 mm
Stainless steel	
●	

M12	
●	○
2 mm	4 mm
Stainless steel	
●	

Picture



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

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz 1KHz
0.1ms/0.1ms 0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz 1KHz
0.1ms/0.1ms 0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

Connecting type
Weight

2M Cable (4.0 φ 3x0.25)
approx.60 g

2M Cable (4.0 φ 3x0.25)
approx.65 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

WSS-M1202N-A1VS2	1*	WSN-M1204N-A1VS2
WSS-M1202N-B1VS2	2	WSN-M1204N-B1VS2
WSS-M1202P-A1VS2	3	WSN-M1204P-A1VS2
WSS-M1202P-B1VS2	4	WSN-M1204P-B1VS2

WSS-M1202N-A1VN2	1*	WSN-M1204N-A1VN2
WSS-M1202N-B1VN2	2	WSN-M1204N-B1VN2
WSS-M1202P-A1VN2	3	WSN-M1204P-A1VN2
WSS-M1202P-B1VN2	4	WSN-M1204P-B1VN2

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

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

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

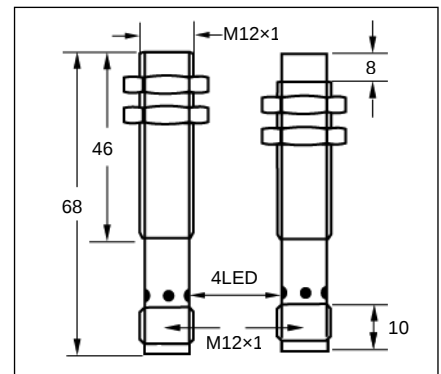
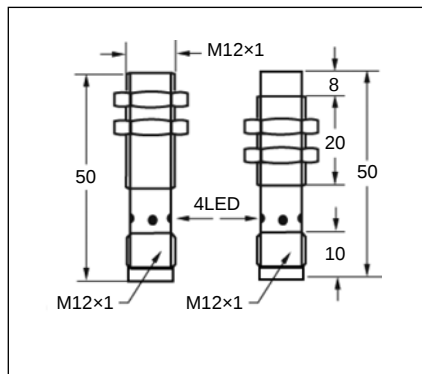
M12	
●	○
2 mm	4 mm
Stainless steel	
●	

M12	
●	○
2 mm	4 mm
Stainless steel	
●	

Picture



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

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz 1KHz
0.1ms/0.1ms 0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

<10%
<10mA
200mA
<0.01mA
<1.5V
2KHz 1KHz
0.1ms/0.1ms 0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

Connecting type
Weight

M12 connector
approx.25 g

M12 connector
approx.30 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

WSS-M1202N-A1ES4	1*	WSN-M1204N-A1ES4
WSS-M1202N-B1ES4	2	WSN-M1204N-B1ES4
WSS-M1202P-A1ES4	3	WSN-M1204P-A1ES4
WSS-M1202P-B1ES4	4	WSN-M1204P-B1ES4

WSS-M1202N-A1EN4	1*	WSN-M1204N-A1EN4
WSS-M1202N-B1EN4	2	WSN-M1204N-B1EN4
WSS-M1202P-A1EN4	3	WSN-M1204P-A1EN4
WSS-M1202P-B1EN4	4	WSN-M1204P-B1EN4

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

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

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

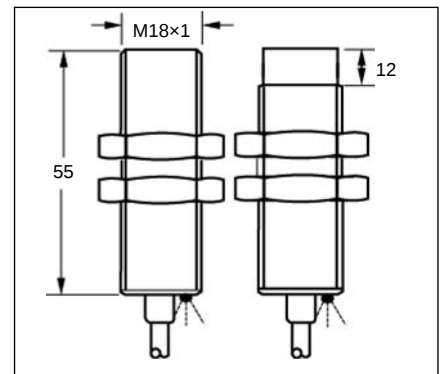
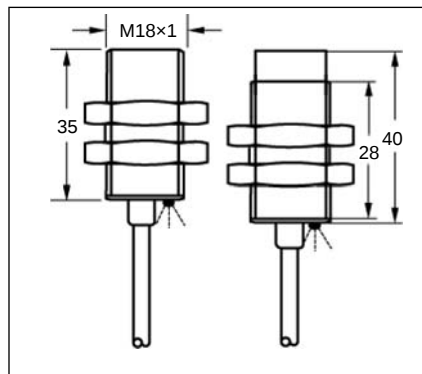
M18	
●	○
5 mm	8 mm
Stainless steel	
●	

M18	
●	○
5 mm	8 mm
Stainless steel	
●	

Picture



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

<10%
<10mA
200mA
<0.01mA
<1.5V
1KHz 500Hz
0.2ms/0.2ms 0.5ms/0.5ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<10%(Sr)
Yes
220mA
PTFE

<10%
<10mA
200mA
<0.01mA
<1.5V
1KHz 500Hz
0.2ms/0.2ms 0.5ms/0.5ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<10%(Sr)
Yes
220mA
PTFE

Connecting type
Weight

2M Cable (5.0 ϕ 3x0.34)
approx.130 g

2M Cable (5.0 ϕ 3x0.34)
approx.150 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

WSS-M1805N-A1VS2	1*	WSN-M1808N-A1VS2
WSS-M1805N-B1VS2	2	WSN-M1808N-B1VS2
WSS-M1805P-A1VS2	3	WSN-M1808P-A1VS2
WSS-M1805P-B1VS2	4	WSN-M1808P-B1VS2

WSS-M1805N-A1VN2	1*	WSN-M1808N-A1VN2
WSS-M1805N-B1VN2	2	WSN-M1808N-B1VN2
WSS-M1805P-A1VN2	3	WSN-M1808P-A1VN2
WSS-M1805P-B1VN2	4	WSN-M1808P-B1VN2

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

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

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

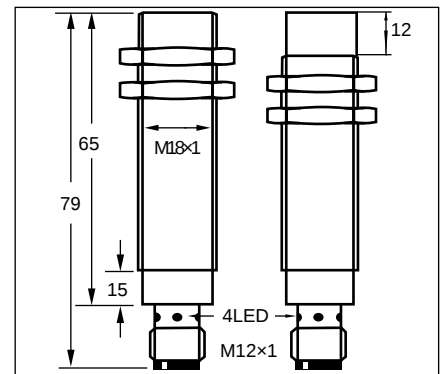
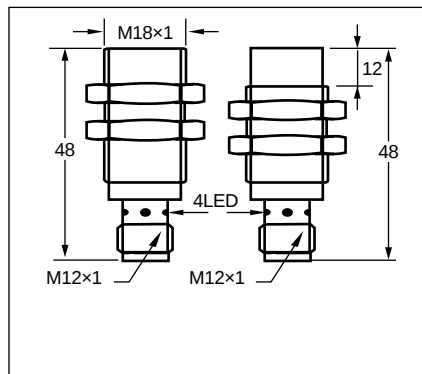
M18
● ○
5 mm 8 mm
Stainless steel
●

M18
● ○
5 mm 8 mm
Stainless steel
●

Picture



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

<10%
<10mA
200mA
<0.01mA
<1.5V
1KHz 500Hz
0.2ms/0.2ms 0.5ms/0.5ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

<10%
<10mA
200mA
<0.01mA
<1.5V
1KHz 500Hz
0.2ms/0.2ms 0.5ms/0.5ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

Connecting type
Weight

M12 connector
approx.52 g

M12 connector
approx.95 g

DC 3 wire 10-30V NPN N.O.
DC 3 wire 10-30V NPN N.C.
DC 3 wire 10-30V PNP N.O.
DC 3 wire 10-30V PNP N.C.
DC 3 wire 10-55V NPN N.O.
DC 3 wire 10-55V NPN N.C.
DC 3 wire 10-55V PNP N.O.
DC 3 wire 10-55V PNP N.C.
DC 3 wire 5-36 V NPN N.O.
DC 3 wire 5-36 V NPN N.C.
DC 3 wire 5-36 V PNP N.O.
DC 3 wire 5-36 V PNP N.C.

WSS-M1805N-A1ES4	1*	WSN-M1808N-A1ES4
WSS-M1805N-B1ES4	2	WSN-M1808N-B1ES4
WSS-M1805P-A1ES4	3	WSN-M1808P-A1ES4
WSS-M1805P-B1ES4	4	WSN-M1808P-B1ES4

WSS-M1805N-A1EN4	1*	WSN-M1808N-A1EN4
WSS-M1805N-B1EN4	2	WSN-M1808N-B1EN4
WSS-M1805P-A1EN4	3	WSN-M1808P-A1EN4
WSS-M1805P-B1EN4	4	WSN-M1808P-B1EN4

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

WELD FIELD IMMUNE INDUCTIVE PROXIMITY SENSOR (10-30VDC)

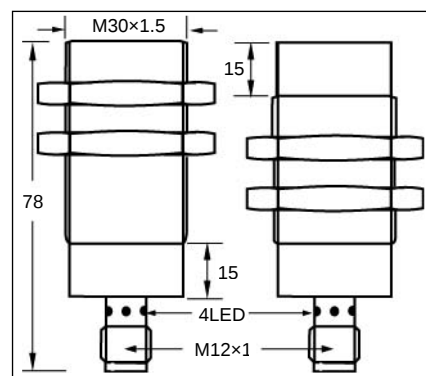
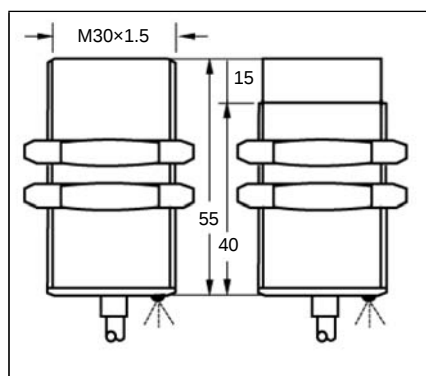
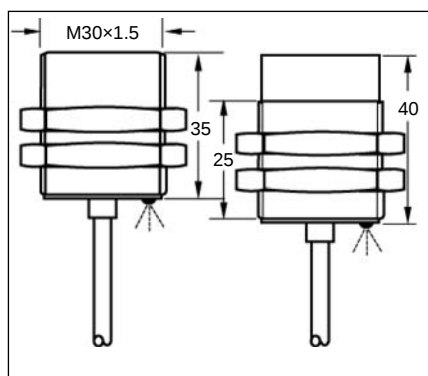
M30	
●	○
10 mm	15 mm
Stainless steel	



M30	
●	○
10 mm	15 mm
Stainless steel	



M30	
●	○
10 mm	15 mm
Stainless steel	



<10%
<10mA
200mA
<0.01mA
<1.5V
300Hz
150Hz
0.5ms/0.5ms
1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

2M Cable (5.0 φ 3x0.34)
approx.182 g

<10%
<10mA
200mA
<0.01mA
<1.5V
300Hz
150Hz
0.5ms/0.5ms
1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

2M Cable (5.0 φ 3x0.34)
approx.215 g

<10%
<10mA
200mA
<0.01mA
<1.5V
300Hz
150Hz
0.5ms/0.5ms
1ms/1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
Yes
220mA
PTFE

M12 connector
approx.120 g

WSS-M3010N-A1VS2	1*	WSN-M3015N-A1VS2
WSS-M3010N-B1VS2	2	WSN-M3015N-B1VS2
WSS-M3010P-A1VS2	3	WSN-M3015P-A1VS2
WSS-M3010P-B1VS2	4	WSN-M3015P-B1VS2

WSS-M3010N-A1VN2	1*	WSN-M3015N-A1VN2
WSS-M3010N-B1VN2	2	WSN-M3015N-B1VN2
WSS-M3010P-A1VN2	3	WSN-M3015P-A1VN2
WSS-M3010P-B1VN2	4	WSN-M3015P-B1VN2

WSS-M3010N-A1ES4	1*	WSN-M3015N-A1ES4
WSS-M3010N-B1ES4	2	WSN-M3015N-B1ES4
WSS-M3010P-A1ES4	3	WSN-M3015P-A1ES4
WSS-M3010P-B1ES4	4	WSN-M3015P-B1ES4

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