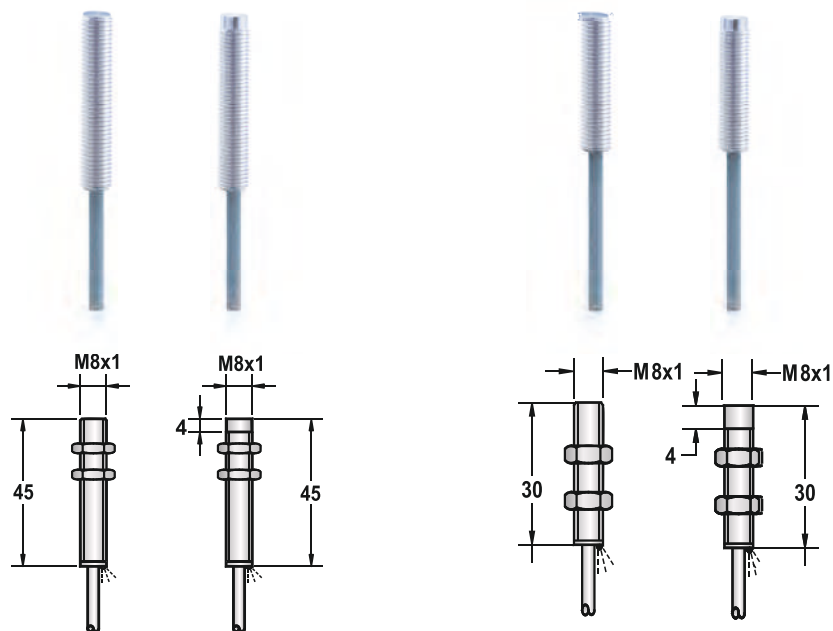


METAL FACE INDUCTIVE PROXIMITY SENSOR



Diameter

M 8

M 8

	M 8		M 8	
● Flush ○ Non-flush	●	○	●	○
Switching Distance Sn: mm	1mm	2mm	1mm	2mm
Housing Material	Stainless steel		Stainless steel	
● With LED ○ Without LED	●		●	
Operating Voltage	10-30VDC		10-30VDC	
Ripple	<10%		<10%	
No load Current	<10mA		<10mA	
Max load Current	200mA		200mA	
Leakge Current	<0.01mA		<0.01mA	
Voltage Drop	<1.5V		<1.5V	
Switching Frequency	1KHZ		1KHZ	
Response Time	0.1ms/0.1ms		0.1ms/0.1ms	
Switching Hysteresis	<15%(Sr)		<15%(Sr)	
Repeat Accuracy	<1.0%(Sr)		<1.0%(Sr)	
Protection Category	IP67		IP67	
Operating Temperature	-25 °C - +70 °C		-25 °C - +70 °C	
Temperature Drift	<10%(Sr)		<10%(Sr)	
Short circuit protection/reverse polarity protection	YES		YES	
Overload Trip Point	220mA		220mA	
Material Active Face	Stainless steel		Stainless steel	
Cable 2M(PVC)	3φ 3x0.15		3φ 3x0.15	
Product model :				
DC 3 wire 10-30V NPN N.O	F1SF-M0801N-O3U2	1	F1SN-M0802N-O3U2	1
DC 3 Wire 10-30V NPN N.C	F1SF-M0801N-C3U2	2	F1SN-M0802N-C3U2	2
DC 3 Wire 10-30V PNP N.O	F1SF-M0801P-O3U2	3	F1SF-M0801P-O3S2	3
DC 3 Wire 10-30V PNP N.C	F1SF-M0801P-C3U2	4	F1SN-M0802P-O3S2	4
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)				
DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)				
DC 2 Wire 10-60V N.O	F4SF-M0801C-O2U2	7	F1SN-M0802C-O2U2	
DC 2 Wire 10-60V N.C	F1SF-M0801C-C2U2	8	F1SN-M0802C-C2U2	
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 5-36V NPN N.O				
DC 3 Wire 5-36V NPN N.C				
DC 3 Wire 5-36V PNP N.O				
DC 3 Wire 5-36V PNP N.C				
DC 4 Wire 5-36V Changover PNP (NO & N.C)				
DC 4 Wire 5-36V Changover NPN (NO & N.C)				



M 8

1mm 2mm

Stainless steel



10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

220mA

Stainless steel

M12 Connector

M8

1mm 2mm

Stainless steel



10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

220mA

Stainless steel

M12 Connector

M 8

1 mm 2 mm

Stainless steel



10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

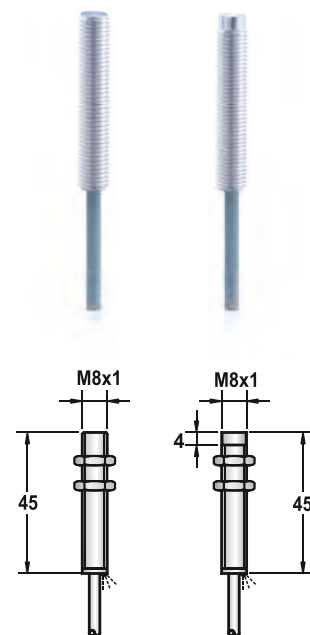
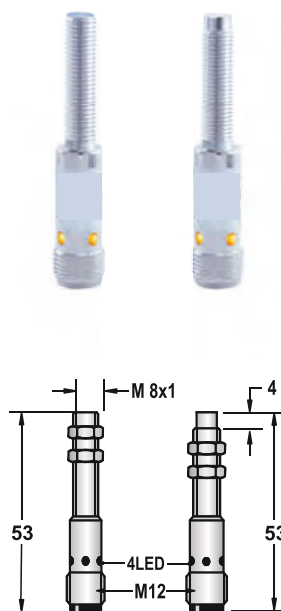
220mA

Stainless steel

M12 Connector

F1SF-M0801N-OPU3	1	F1SN-M0802N-OPU3	F1SF-M0801N-OEU4	1	F1SN-M0802N-OEU4	F1SF-M0801N-OPS3	1	F1SN-M0802N-OPS3
F1SF-M0801N-CPU3	2	F1SN-M0802N-CPU3	F1SF-M0801N-CEU4	2	F1SN-M0802N-CEU4	F1SF-M0801N-CPS3	2	F1SN-M0802N-CPS3
F1SF-M0801P-OPU3	3	F1SN-M0802P-OPU3	F1SF-M0801P-OEU4	3	F1SN-M0802P-OEU4	F1SF-M0801P-OPS3	3	F1SN-M0802P-OPS3
F1SF-M0801P-CPU3	4	F1SN-M0802P-CPU3	F1SF-M0801P-CEU4	4	F1SN-M0802P-CEU4	F1SF-M0801P-CPS3	4	F1SN-M0802P-CPS3
F4SF-M0801C-OPU3	7	F4SN-M0802C-OPU3	F4SF-M0801C-OEU4	7	F4SN-M0802C-OEU4			
F4SF-M0801C-CPU3	8	F4SN-M0802C-CPU3	F4SF-M0801C-CEU4	8	F4SN-M0802C-CEU4			

METAL FACE INDUCTIVE PROXIMITY SENSOR



Diameter

M 8

M 8

- Flush ○ Non-flush

Switching Distance Sn: mm

Housing Material

- With LED ○ Without LED

Operating Voltage

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/reverse polarity protection

Overload Trip Point

Material Active Face

Cable 2M(PVC)

Product model:

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 4 Wire 10-30V Changeover PNP (N.O & N.C)

DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)

DC 2 Wire 10-60V N.O

DC 2 Wire 10-60V 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 5-36V NPN N.O

DC 3 Wire 5-36V NPN N.C

DC 3 Wire 5-36V PNP N.O

DC 3 Wire 5-36V PNP N.C

DC 4 Wire 5-36V Changover PNP (N.O & N.C)

DC 4 Wire 5-36V Changover NPN (N.O & N.C)

1mm

2mm

Stainless steel

●

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

220mA

Stainless steel

M12 Connector

2mm

3.5mm

Stainless steel

●

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

700HZ

0.1ms/0.1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

220mA

Stainless steel

3φ 3x0.15

F1SF-M0801N-OES4

1

F1SN-M0802N-OES4

F1SF-M0802N-O3U2

1

F1SN-M083.5N-O3U2

F1SF-M0801N-CES4

2

F1SN-M0802N-CES4

F1SF-M0802N-C3U2

2

F1SN-M083.5N-C3U2

F1SF-M0801P-OES4

3

F1SN-M0802P-OES4

F1SF-M0802P-O3U2

3

F1SN-M083.5P-O3U2

F1SF-M0801P-CES4

4

F1SN-M0802P-CES4

F1SF-M0802P-C3U2

4

F1SN-M083.5P-C3U2

F4SF-M0802C-O2U2

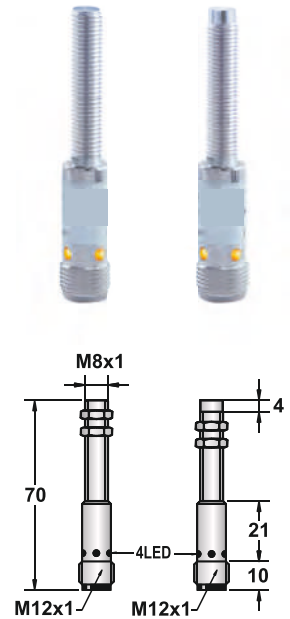
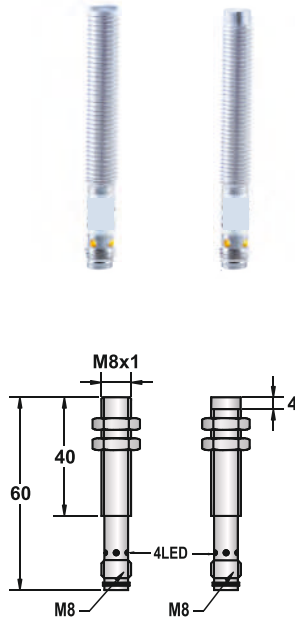
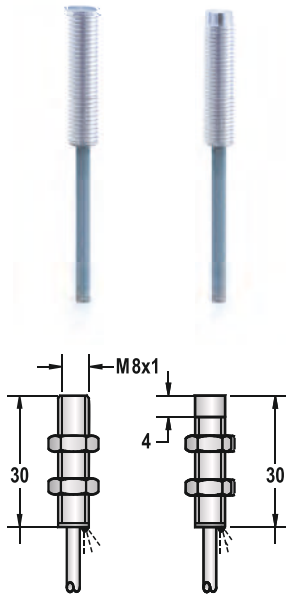
7

F4SN-M083.5C-O2U2

F4SF-M0802C-C2U2

8

F4SN-M083.5C-C2U2



M 8

2mm
Stainless steel
3.5mm

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
700HZ
0.1ms/0.1ms
700HZ
0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70 °C
<10%(Sr)
YES
220mA
Stainless steel
3φ 2x0.15

M 8

2mm
Stainless steel
3.5mm

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
700HZ
0.1ms/0.1ms
700HZ
0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70 °C
<10%(Sr)
YES
220mA
Stainless steel
M8 Connector

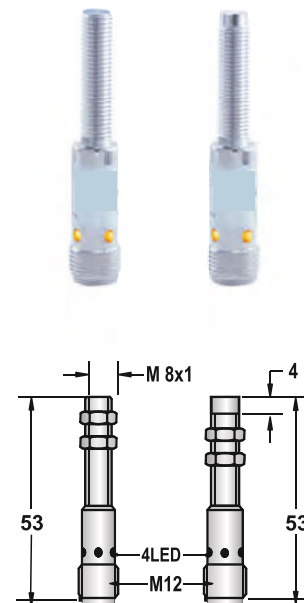
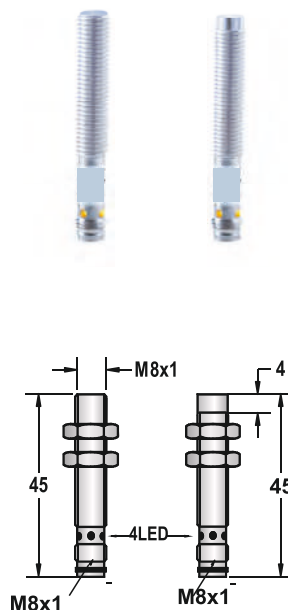
M 8

2mm
Stainless steel
3.5mm

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
700HZ
0.1ms/0.1ms
700HZ
0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70 °C
<10%(Sr)
YES
220mA
Stainless steel
M12 Connector

F1SF-M0802N-O3S2	1	F1SN-M083.5N-O3S2	F1SF-M0802N-OPU3	1	F1SN-M083.5N-OPU3	F1SF-M0802N-OEU4	1	F1SN-M083.5N-OEU4
F1SF-M0802N-C3S2	2	F1SN-M083.5N-C3S2	F1SF-M0802N-CPU3	2	F1SN-M083.5N-CPU3	F1SF-M0802N-CEU4	2	F1SN-M083.5N-CEU4
F1SF-M0802P-O3S2	3	F1SN-M083.5P-O3S2	F1SF-M0802P-OPU3	3	F1SN-M083.5P-OPU3	F1SF-M0802P-OEU4	3	F1SN-M083.5P-OEU4
F1SF-M0802P-C3S2	4	F1SN-M083.5P-C3S2	F1SF-M0802P-CPU3	4	F1SN-M083.5P-CPU3	F1SF-M0802P-CEU4	4	F1SN-M083.5P-CEU4
			F4SF-M0802C-OPU3	7	F4SN-M083.5C-OPU3	F4SF-M0802C-OEU4	7	F4SN-M083.5C-OEU4
			F4SF-M0802C-CPU3	8	F4SN-M083.5C-CPU3	F4SF-M0802C-CEU4	8	F4SN-M083.5C-CEU4

METAL FACE INDUCTIVE PROXIMITY SENSOR



Diameter

● Flush ○ Non-flush

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Operating Voltage

Ripple

No load Current

Max load Current

Leakge Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short circuit protection/reverse polarity protection

Overload Trip Point

Material Active Face

Cable 2M(PVC)

Product model:

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 4 Wire 10-30V Changeover PNP (N.O & N.C)

DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)

DC 2 Wire 10-60V N.O

DC 2 Wire 10-60V 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 5-36V NPN N.O

DC 3 Wire 5-36V NPN N.C

DC 3 Wire 5-36V PNP N.O

DC 3 Wire 5-36V PNP N.C

DC 4 Wire 5-36V Changover PNP (N.O & N.C)

DC 4 Wire 5-36V Changover NPN (N.O & N.C)

M 8

●

2 mm

○

3.5 mm

Stainless steel

●

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

2KHZ

0.1ms/0.1ms

1KHZ

0.2ms/0.2ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

220mA

Stainless steel

M8 Connector

F1SF-M0802N-OPS3

1

F1SN-M083.5N-OPS3

F1SF-M0802N-CPS3

2

F1SN-M083.5N-CPS3

F1SF-M0802P-OPS3

3

F1SN-M083.5P-OPS3

F1SF-M0802P-CPS3

4

F1SN-M083.5P-CPS3

M 8

●

2mm

○

3.5mm

Stainless steel

●

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

2KHZ

0.1ms/0.1ms

1KHZ

0.2ms/0.2ms

<15%(Sr)

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

220mA

Stainless steel

M12 Connector

F1SF-M0802N-OES4

1

F1SN-M083.5N-OES4

F1SF-M0802N-CES4

2

F1SN-M083.5N-CES4

F1SF-M0802P-OES4

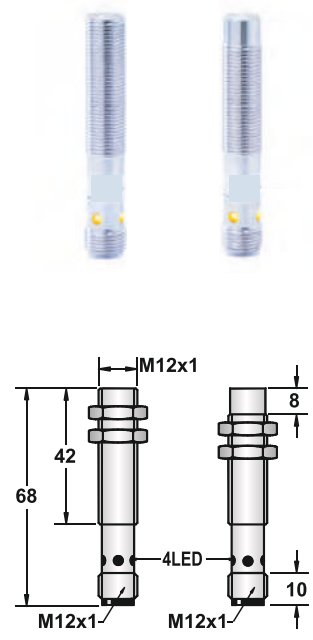
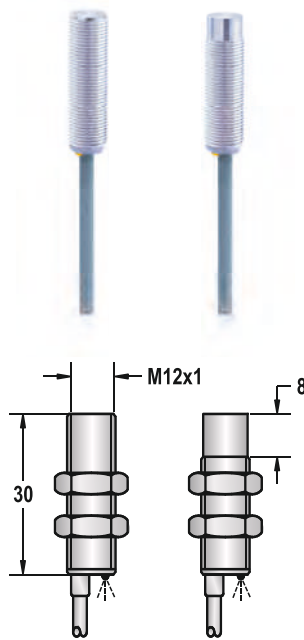
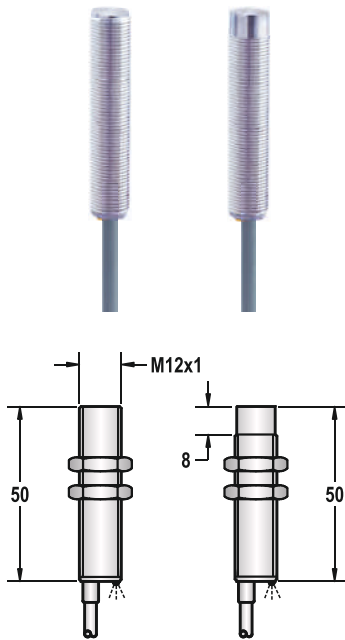
3

F1SN-M083.5P-OES4

F1SF-M0802P-CES4

4

F1SN-M083.5P-CES4



M 12

2 mm 4 mm
Stainless steel

10-30VDC/5-36VDC/10-55VDC/10-60VDC

<10%
<10mA
200mA
<0.01mA
<1.5V

600HZ 400HZ
0.1ms/0.1m s 0.2ms/0.2ms

<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)

YES
220mA
Stainless steel

4φ 3x0.15/ 4φ 4x0.15

M 12

2 mm 4 mm
Stainless steel

10-30VDC/5-36VDC

<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
Stainless steel

4φ 3x0.15

M 12

2 mm 4 mm
Stainless steel

10-30VDC/5-36VDC/10-55VDC/10-60VDC

<10%
<10mA
200mA
<0.01mA
<1.5V

2KHZ 1KHZ
0.1ms/0.1m s 0.2ms/0.2ms

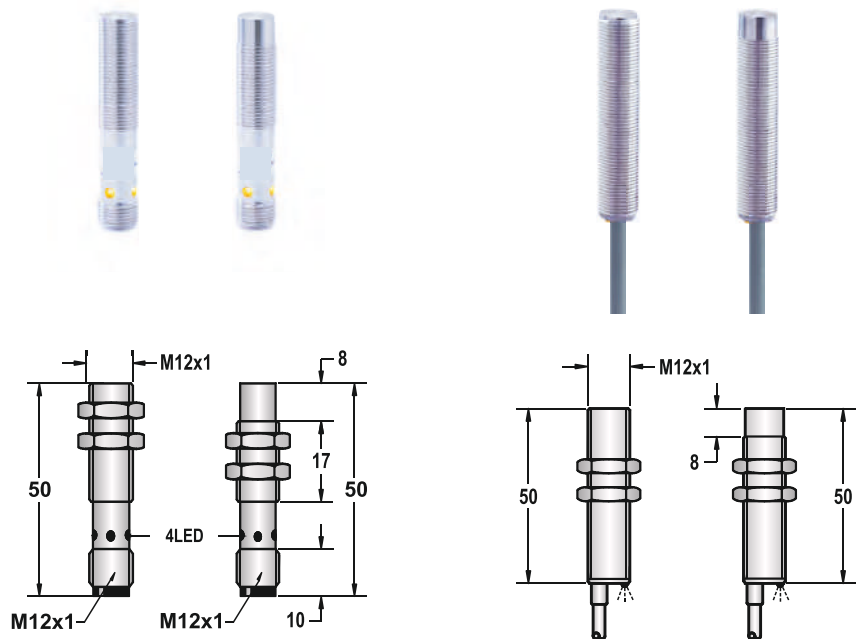
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)

YES
220mA
Stainless steel

M12 Connector

F1SF-M1202N-O3U2	1	F1SN-M1204N-O3U2	F1SF-M1202N-O3S2	1	F1SN-M1204N-O3S2	F1SF-M1202N-OEU4	1	F1SN-M1204N-OEU4
F1SF-M1202N-C3U2	2	F1SN-M1204N-C3U2	F1SF-M1202N-C3S2	2	F1SN-M1204N-C3S2	F1SF-M1202N-CEU4	2	F1SN-M1204N-CEU4
F1SF-M1202P-O3U2	3	F1SN-M1204P-O3U2	F1SF-M1202P-O3S2	3	F1SN-M1204P-O3S2	F1SF-M1202P-OEU4	3	F1SN-M1204P-OEU4
F1SF-M1202P-C3U2	4	F1SN-M1204P-C3U2	F1SF-M1202P-C3S2	4	F1SN-M1204P-C3S2	F1SF-M1202P-CEU4	4	F1SN-M1204P-CEU4
F4SF-M1202C-O2U2	7	F4SN-M1204C-O2U2	F4SF-M1202C-O2S2	7	F4SN-M1204C-O2S2	F4SF-M1202C-OEU4	7	F4SN-M1204C-OEU4
F4SF-M1202C-C2U2	8	F4SN-M1204C-C2U2	F4SF-M1202C-C2S2	8	F4SN-M1204C-C2S2	F4SF-M1202C-CEU4	8	F4SN-M1204C-CEU4

METAL FACE INDUCTIVE PROXIMITY SENSOR

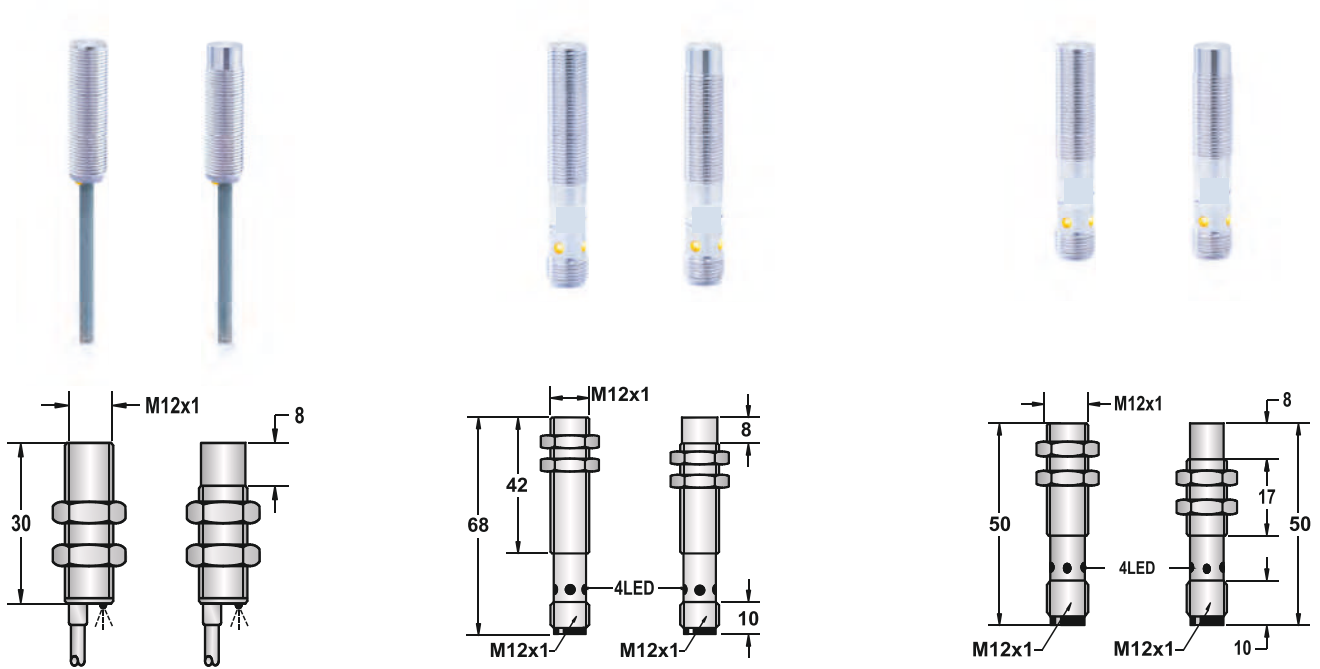


Diameter

M12

M12

● Flush	○ Non-flush	● Half-flush mounting	● 2 mm	○ 4 mm	● 4 mm	○ 6 mm
Switching Distance Sn: mm			2 mm	4 mm	4 mm	6 mm
Housing Material			Stainless steel		Stainless steel	
● With LED	○ Without LED		●		●	
Operating Voltage			10-30VDC		10-30VDC	
Ripple			<10%		<10%	
No load Current			<10mA		<10mA	
Max load Current			200mA		200mA	
Leakge Current			<0.01mA		<0.01mA	
Voltage Drop			<1.5V		<1.5V	
Switching Frequency			2KHZ	1KHZ	1KHZ	
Response Time			0.1ms/0.1ms	0.2ms/0.2ms	0.2ms/0.2ms	
Switching Hysteresis			<15%(Sr)		<15%(Sr)	
Repeat Accuracy			<1.0%(Sr)		<1.0%(Sr)	
Protection Category			IP67		IP67	
Operating Temperature			-25°C - +70°C		-25°C - +70°C	
Temperature Drift			<10%(Sr)		<10%(Sr)	
Short circuit protection/reverse polarity protection			YES		YES	
Overload Trip Point			220mA		220mA	
Material Active Face			Stainless steel		Stainless steel	
Cable 2M(PVC)			M12 Connector		3φ 3x0.15	
Product model:						
DC 3 wire 10-30V NPN N.O	F1SF-M1202N-OES4	1	F1SN-M1204N-OES4	F1SF-M1204N-O3U2	1	F1SN-M1206N-O3U2
DC 3 Wire 10-30V NPN N.C	F1SF-M1202N-CES4	2	F1SN-M1204N-CES4	F1SF-M1204N-C3U2	2	F1SN-M1206N-C3U2
DC 3 Wire 10-30V PNP N.O	F1SF-M1202P-OES4	3	F1SN-M1204P-OES4	F1SF-M1204P-O3U2	3	F1SN-M1206P-O3U2
DC 3 Wire 10-30V PNP N.C	F1SF-M1202P-CES4	4	F1SN-M1204P-CES4	F1SF-M1204P-C3U2	4	F1SF-M1206P-C3U2
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)						
DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)						
DC 2 Wire 10-60V N.O	F4SF-M1202C-OES4	7	F4SN-M1204C-OES4	F4SF-M1204C-O2U2	7	F4SN-M1206C-O2U2
DC 2 Wire 10-60V N.C	F4SF-M1202C-CES4	8	F4SN-M1204C-CES4	F4SF-M1204C-C2U2	8	F4SN-M1206C-C2U2
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 5-36V NPN N.O						
DC 3 Wire 5-36V NPN N.C						
DC 3 Wire 5-36V PNP N.O						
DC 3 Wire 5-36V PNP N.C						
DC 4 Wire 5-36V Changover PNP (N.O & N.C)						
DC 4 Wire 5-36V Changover NPN (N.O & N.C)						



M 12

4mm 6mm

Stainless steel

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
1KHZ
0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
Stainless steel
4φ 3x0.15

M 12

4mm 6mm

Stainless steel

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
1KHZ
0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
Stainless steel
M12 Connector

M 12

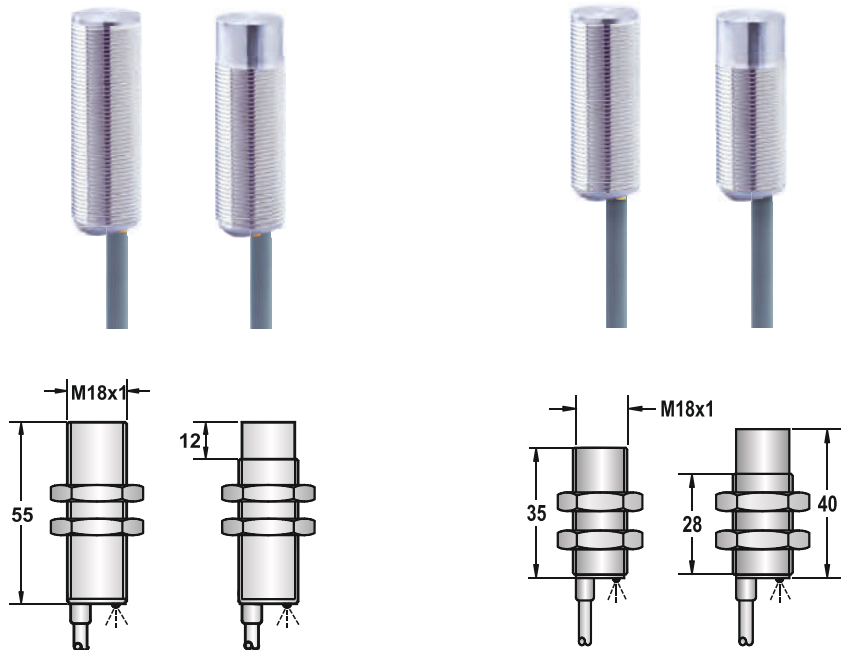
4mm 6mm

Stainless steel

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
1KHZ
0.2ms/0.2ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
Stainless steel
M12 Connector

F1SF-M1204N-O3S2	1	F1SN-M1206N-O3S2	F1SF-M1204N-OEU4	1	F1SN-M1206N-OEU4	F1SF-M1204N-OES4	1	F1SN-M1206N-OES4
F1SF-M1204N-C3S2	2	F1SN-M1206N-C3S2	F1SF-M1204N-CEU4	2	F1SN-M1206N-CEU4	F1SF-M1204N-CES4	2	F1SN-M1206N-CES4
F1SF-M1204P-O3S2	3	F1SN-M1206P-O3S2	F1SF-M1204P-OEU4	3	F1SN-M1206P-OEU4	F1SF-M1204P-OES4	3	F1SN-M1206P-OES4
F1SF-M1204P-C3S2	4	F1SN-M1206P-C3S2	F1SF-M1204P-CEU4	4	F1SN-M1206P-CEU4	F1SF-M1204P-CES4	4	F1SN-M1206P-CES4
F4SF-M1204C-O2S2	7	F4SN-M1206C-O2S2	F4SF-M1204C-OEU4	7	F4SN-M1206C-OEU4	F4SF-M1204C-OES4	7	F4SN-M1206C-OES4
F4SF-M1204C-C2S2	8	F4SN-M1206C-C2S2	F4SF-M1204C-CEU4	8	F4SN-M1206C-CEU4	F4SF-M1204C-CES4	8	F4SN-M1206C-CES4

METAL FACE INDUCTIVE PROXIMITY SENSOR

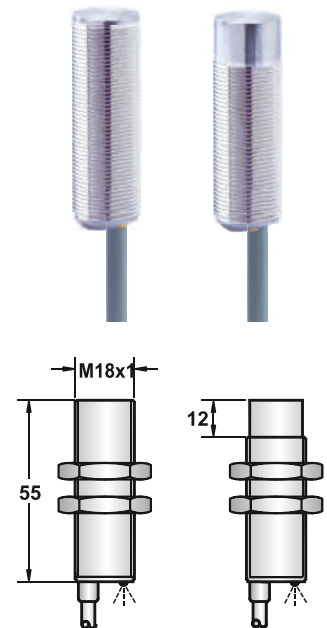
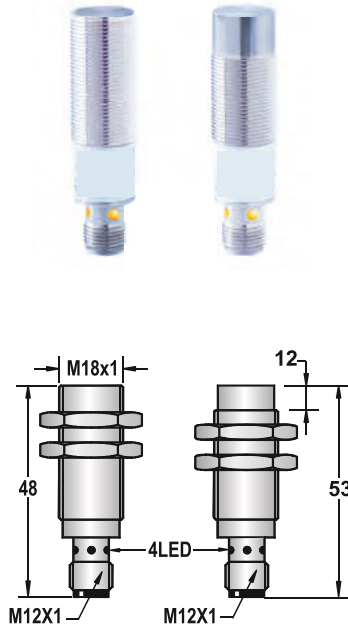
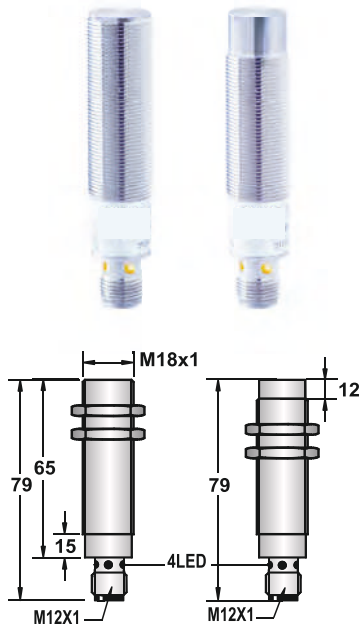


Diameter

M 18

M 18

● Flush	○ Non-flush	● 5 mm	○ 8 mm	● 5 mm	○ 8 mm	
Switching Distance Sn: mm		5 mm	8 mm	5 mm	8 mm	
Housing Material		Stainless steel		Stainless steel		
● With LED	○ Without LED	●		●		
Operating Voltage		10-30VDC/ 5-36VDC / 10-55VDC / 10-60VDC		10-30VDC/ 5-36VDC/ 10-55VDC / 10-60VDC		
Ripple		<10%		<10%		
No load Current		<10mA		<10mA		
Max load Current		200mA		200mA		
Leakge Current		<0.01mA		<0.01mA		
Voltage Drop		<1.5V		<1.5V		
Switching Frequency		1KHZ	500H Z	1KHZ	500HZ	
Response Time		0.2ms/0.2ms	0.5ms/0.5m s	0.2ms/0.2ms	0.5ms/0.5ms	
Switching Hysteresis		<15%(Sr)		<15%(Sr)		
Repeat Accuracy		<1.0%(Sr)		<1.0%(Sr)		
Protection Category		IP67		IP67		
Operating Temperature		-25°C – +70°C		-25°C – +70°C		
Temperature Drift		<10%(Sr)		<10%(Sr)		
Short circuit protection/reverse polarity protection		YES		YES		
Overload Trip Point		220mA		220mA		
Material Active Face		Stainless steel		Stainless steel		
Cable 2M(PVC)		5.0φ 3x0.34		5.0φ 3x0.34		
Product model:						
DC 3 wire 10-30V NPN N.O	F1SF-M1805N-O3U2	1	F1SN-M1808N-O3U2	F1SF-M1805N-O3S2	1	F1SN-M1808N-O3S2
DC 3 Wire 10-30V NPN N.C	F1SF-M1805N-C3U2	2	F1SN-M1808N-C3U2	F1SF-M1805N-C3S2	2	F1SN-M1808N-C3S2
DC 3 Wire 10-30V PNP N.O	F1SF-M1805P-O3U2	3	F1SN-M1808P-O3U2	F1SF-M1805P-O3S2	3	F1SN-M1808P-O3S2
DC 3 Wire 10-30V PNP N.C	F1SF-M1805P-C3U2	4	F1SN-M1808P-C3U2	F1SF-M1805P-C3S2	4	F1SN-M1808P-C3S2
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)						
DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)						
DC 2 Wire 10-60V N.O	F4SF-M1805C-O2U2	7	F4SN-M1808C-O2U2	F4SF-M1805C-O2S2	7	F4SN-M1808C-O2S2
DC 2 Wire 10-60V N.C	F4SF-M1805C-C2U2	8	F4SN-M1808C-C2U2	F4SF-M1805C-C2S2	8	F4SN-M1808C-C2S2
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 5-36V NPN N.O						
DC 3 Wire 5-36V NPN N.C						
DC 3 Wire 5-36V PNP N.O						
DC 3 Wire 5-36V PNP N.C						
DC 4 Wire 5-36V Changover PNP (N.O & N.C)						
DC 4 Wire 5-36V Changover NPN (N.O & N.C)						



M18

5 mm 8 mm

Stainless steel

10-30VDC
<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

Stainless steel
M12 Connector

M18

5 mm 8 mm

Stainless steel

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V

500HZ 300HZ
0.2ms/0.2ms 0.5ms/0.5ms

<15%(Sr)
<1.0%(Sr)

IP67
-25 °C - +70 °C
<10%(Sr)

YES
220mA

Stainless steel
M12 Connector

M18

8 mm 10mm

Stainless steel

10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V

500HZ 300HZ
0.5ms/0.5ms 0.6ms/0.6ms

<15%(Sr)
<1.0%(Sr)

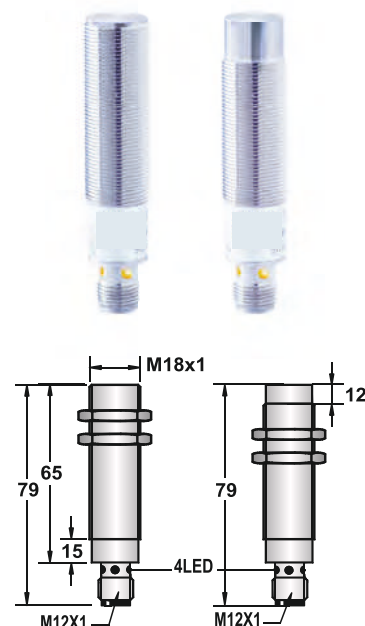
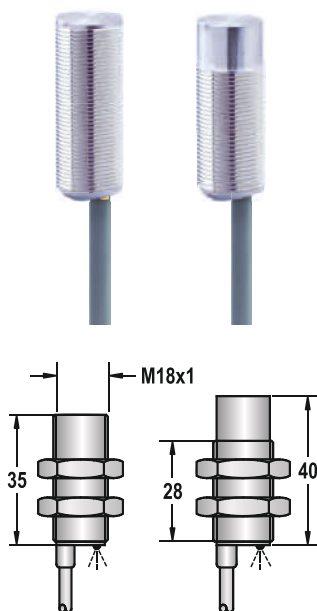
IP67
-25 °C - +70 °C
<10%(Sr)

YES
220mA

Stainless steel
5.0φ 3x0.34

F1SF-M1805N-OEU4	1	F1SN-M1808N-OEU4	F1SF-M1805N-OES4	1	F1SN-M1808N-OES4	F1SF-M1808N-O3U2	1	F1SN-M1810N-O3U2
F1SF-M1805N-CEU4	2	F1SN-M1808N-CEU4	F1SF-M1805N-CES4	2	F1SN-M1808N-CES4	F1SF-M1808N-C3U2	2	F1SN-M1810N-O3U2
F1SF-M1805P-OEU4	3	F1SN-M1808P-OEU4	F1SF-M1805P-OES4	3	F1SN-M1808P-OES4	F1SF-M1808P-O3U2	3	F1SN-M1810P-O3U2
F1SF-M1805P-CEU4	4	F1SN-M1808P-CEU4	F1SF-M1805P-CES4	4	F1SN-M1808P-CES4	F1SF-M1808P-C3U2	4	F1SN-M1810P-O3U2
F4SF-M1805C-OEU4	7	F4SN-M1808C-OEU4	F4SF-M1805C-OES4	7	F4SN-M1808C-OES4			
F4SF-M1805C-CEU4	8	F4SN-M1808C-CEU4	F4SF-M1805C-CES4	8	F4SN-M1808C-CES4			

METAL FACE INDUCTIVE PROXIMITY SENSOR



Diameter

M 18

M 18

- Flush ○ Non-flush

Switching Distance Sn: mm

Housing Material

- With LED ○ Without LED

Operating Voltage

Ripple

No load Current

Max load Current

Leakge Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short circuit protection/reverse polarity protection

Overload Trip Point

Material Active Face

Cable 2M(PVC)

Product model:

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 4 Wire 10-30V Changeover PNP (N.O & N.C)

DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)

DC 2 Wire 10-60V N.O

DC 2 Wire 10-60V 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 5-36V NPN N.O

DC 3 Wire 5-36V NPN N.C

DC 3 Wire 5-36V PNP N.O

DC 3 Wire 5-36V PNP N.C

DC 4 Wire 5-36V Changover PNP (N.O & N.C)

DC 4 Wire 5-36V Changover NPN (N.O & N.C)

8mm 10mm

Stainless steel

-

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

500HZ

0.5ms/0.5ms

300HZ

0.6ms/0.6ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

Stainless steel

5.0φ 3x0.34/4x0.25

8mm 10mm

Stainless steel

-

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

500HZ

0.5ms/0.5ms

300HZ

0.6ms/0.6ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

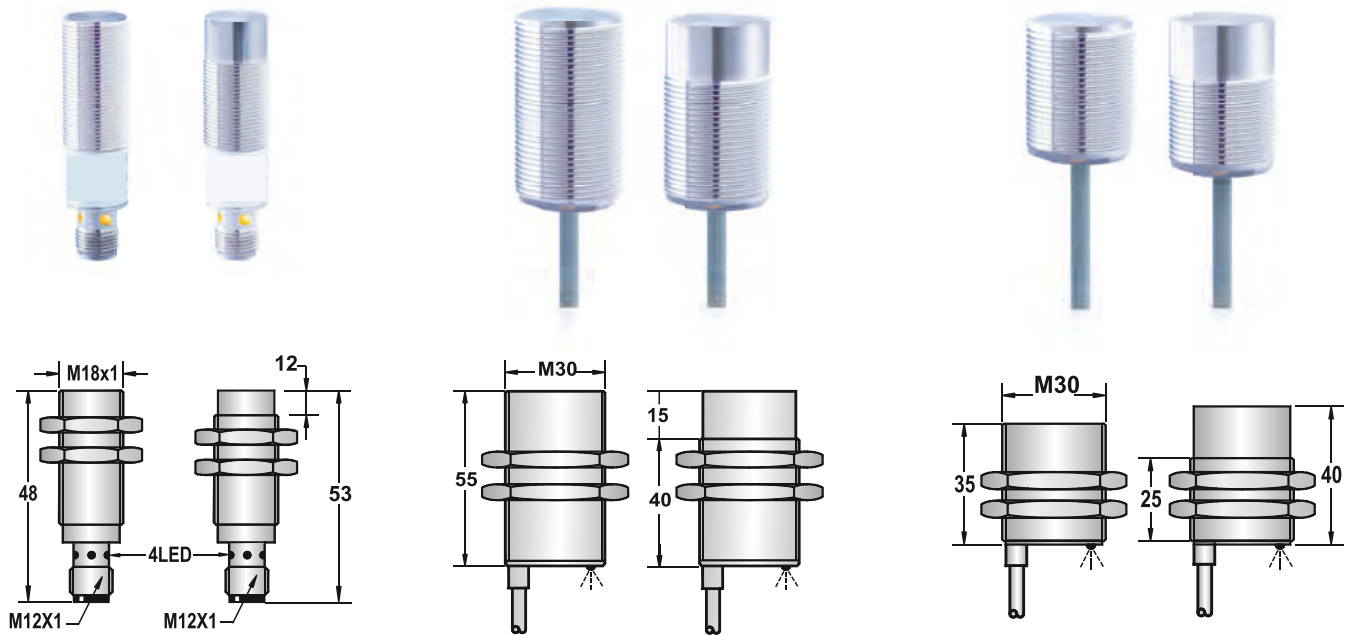
220mA

Stainless steel

M12 Connector

F1SF-M1808N-O3S2 1 F1SN-M1810N-O3S2
F1SF-M1808N-C3S2 2 F1SN-M1810N-C3S2
F1SF-M1808P-O3S2 3 F1SN-M1810P-O3S2
F1SF-M1808P-C3S2 4 F1SN-M1810P-C3S2

F1SF-M1808N-OEU4 1 F1SN-M1810N-OEU4
F1SF-M1808N-CEU4 2 F1SN-M1810N-CEU4
F1SF-M1808P-OEU4 3 F1SN-M1810P-OEU4
F1SF-M1808P-CEU4 4 F1SN-M1810P-CEU4



M18

8 mm

10 mm

Stainless steel



10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V

500HZ
0.5ms/0.5ms

300HZ
0.6ms/0.6ms

<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)

YES
220mA

Stainless steel
M12 Connector

M 30

10 mm

13 mm

Stainless steel



10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V

300HZ
0.5ms/0.5ms

150HZ
1ms/1ms

<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)

YES
220mA

Stainless steel
5.0φ 3x0.34

M 30

10 mm

13 mm

Stainless steel



10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V

300HZ
0.5ms/0.5ms

150HZ
1ms/1ms

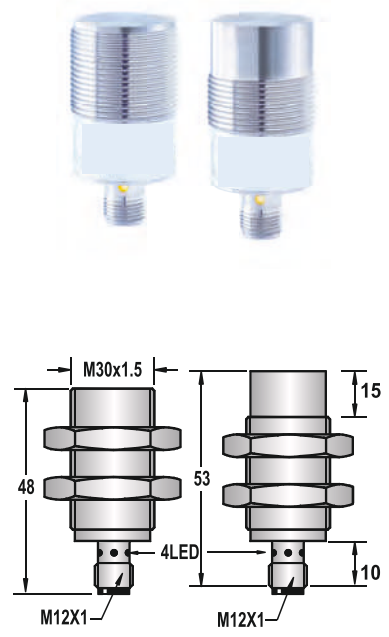
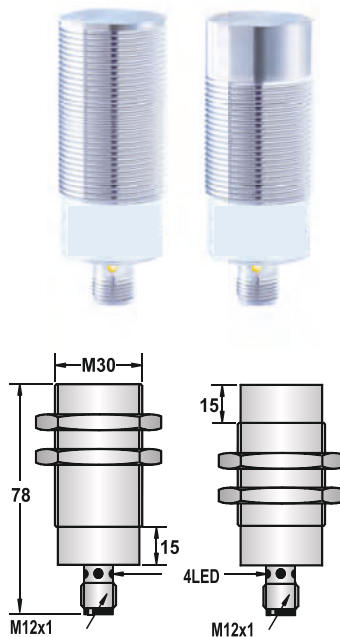
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)

YES
220mA

Stainless steel
5.0φ 3x0.34

F1SF-M1808N-OES4	1	F1SN-M1810N-OES4	F1SF-M3010N-O3U2	1	F1SN-M3013N-O3U2	F1SF-M3010N-O3S2	1	F1SN-M3013N-O3S2
F1SF-M1808N-CES4	2	F1SN-M1810N-CES4	F1SF-M3010N-C3U2	2	F1SN-M3013N-C3U2	F1SF-M3010N-C3S2	2	F1SN-M3013N-C3S2
F1SF-M1808P-OES4	3	F1SN-M1810P-OES4	F1SF-M3010P-O3U2	3	F1SN-M3013P-O3U2	F1SF-M3010P-O3S2	3	F1SN-M3013P-O3S2
F1SF-M1808P-CES4	4	F1SN-M1810P-CES4	F1SF-M3010P-C3U2	4	F1SN-M3013P-C3U2	F1SF-M3010P-C3S2	4	F1SN-M3013P-C3S2
			F4SF-M3010C-O2U2	7	F4SN-M3013C-O2U2	F4SF-M3010C-O2S2	7	F4SN-M3013C-O2S2
			F4SF-M3010C-C2U2	8	F4SN-M3013C-C2U2	F4SF-M3010C-C2S2	8	F4SN-M3013C-C2S2

METAL FACE INDUCTIVE PROXIMITY SENSOR

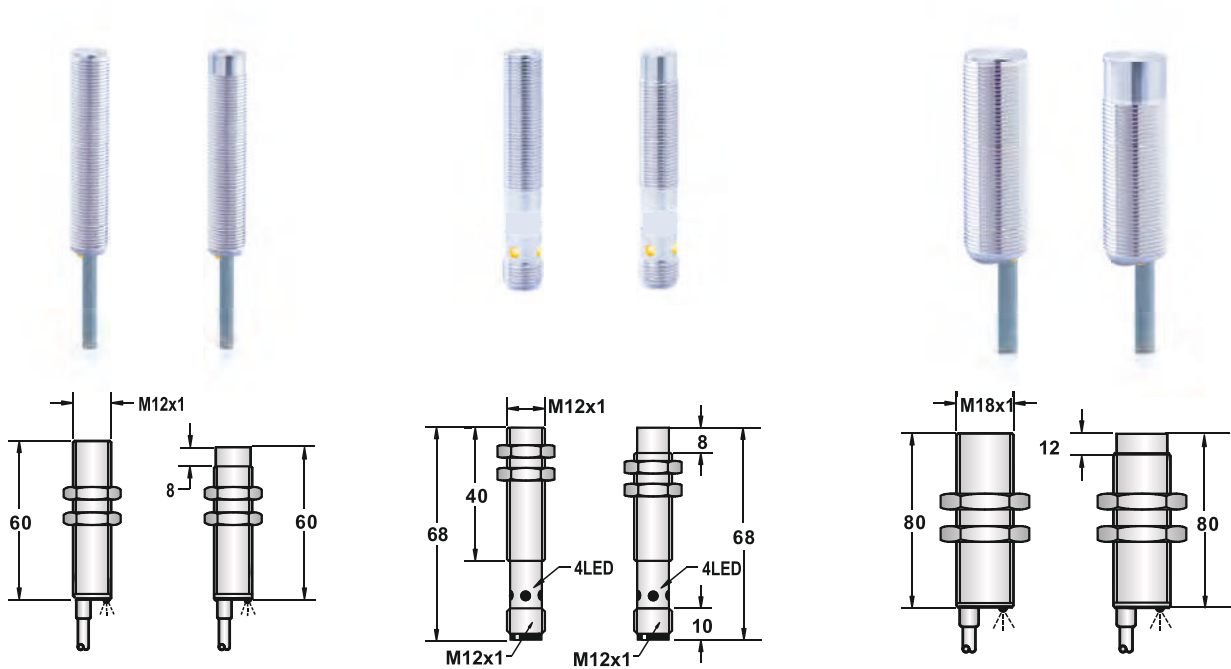


Diameter

M 30

M 30

	M 30		M 30	
● Flush ○ Non-flush	●	○	●	○
Switching Distance Sn: mm	10 mm	13 mm	10 mm	13 mm
Housing Material	Stainless steel		Stainless steel	
● With LED ○ Without LED	●	○	●	○
Operating Voltage	10-30VDC		10-30VDC	
Ripple	<10%		<10%	
No load Current	<10mA		<10mA	
Max load Current	200mA		200mA	
Leakge Current	<0.01mA		<0.01mA	
Voltage Drop	<1.5V		<1.5V	
Switching Frequency	300HZ	150HZ	300HZ	150HZ
Response Time	0.5ms/0.5ms	1ms/1ms	0.5ms/0.5ms	1ms/1ms
Switching Hysteresis	<15%(Sr)		<15%(Sr)	
Repeat Accuracy	<1.0%(Sr)		<1.0%(Sr)	
Protection Category	IP67		IP67	
Operating Temperature	-25°C - +70°C		-25°C - +70°C	
Temperature Drift	<10%(Sr)		<10%(Sr)	
Short circuit protection/reverse polarity protection	YES		YES	
Overload Trip Point	220mA		220mA	
Material Active Face	Stainless steel		Stainless steel	
Cable 2M(PVC)	M12 Connector		M12 Connector	
Product model :				
DC 3 wire 10-30V NPN N.O	F1SF-M3010N-OEU4	1	F1SN-M3013N-OEU4	1
DC 3 Wire 10-30V NPN N.C	F1SF-M3010N-CEU4	2	F1SN-M3013N-CEU4	2
DC 3 Wire 10-30V PNP N.O	F1SF-M3010P-OEU4	3	F1SN-M3013P-OEU4	3
DC 3 Wire 10-30V PNP N.C	F1SF-M3010P-CEU4	4	F1SN-M3013P-CEU4	4
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)				
DC 4 Wire 10-30V ChangeoverNPN (N.O & N.C)				
DC 2 Wire 10-60V N.O	F4SF-M3010C-OEU4	7	F4SN-M3013C-OEU4	7
DC 2 Wire 10-60V N.C	F4SF-M3010C-CEU4	8	F4SN-M3013C-CEU4	8
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 5-36V NPN N.O				
DC 3 Wire 5-36V NPN N.C				
DC 3 Wire 5-36V PNP N.O				
DC 3 Wire 5-36V PNP N.C				
DC 4 Wire 5-36V Changover PNP (N.O & N.C)				
DC 4 Wire 5-36V Changover NPN (N.O & N.C)				



M 12

● 2 mm
○ 4 mm
Stainless steel

M 12

● 2 mm
○ 4 mm
Stainless steel

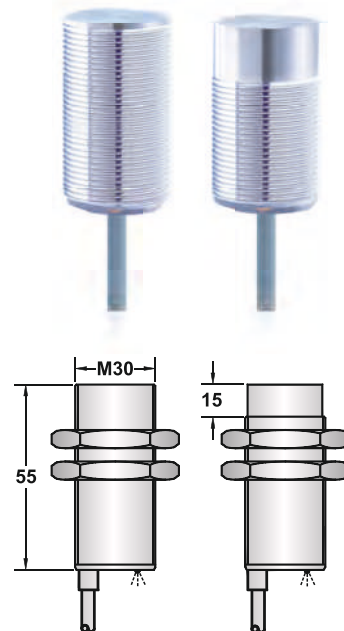
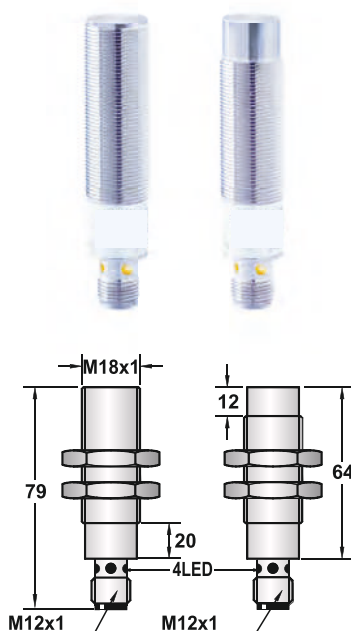
M18

● 5 mm
○ 8 mm
Stainless steel

Operating Voltage	20-250VAC	20-250VAC	20-250VAC
No load Current	<1.8mA	<1.8mA	<1.8mA
Max load Current	400mA	400mA	400mA
Leakge Current	<1.8mA	<1.8mA	<1.8mA
Surge Current	5A(20ms)	5A(20ms)	5A(20ms)
Min Load Current	5mA	5mA	5mA
Voltage Drop	<8VAC AT 400mA	<8VAC AT 400mA	<8VAC AT 400MA
Switching Frequency	<25HZ	<25HZ	<25HZ
Response Time	10ms/10ms	10ms/10ms	10ms/10ms
Switching Hysteresis	<15%(Sr)	<15%(Sr)	<15%(Sr)
Repeat Accuracy	<1.0%(Sr)	<1.0%(Sr)	<1.0%(Sr)
Protection Category	IP67	IP67	IP67
Operating Temperature	-25 °C - +70 °C	-25 °C - +70 °C	-25 °C - +70 °C
Temperature Drift	<10%(Sr)	<10%(Sr)	<10%(Sr)
Short circuit protection	NO	NO	NO
Material Active Face	Stainless steel	Stainless steel	Stainless steel
Cable 2M(PVC)	4φ 3x0.15/ 4φ 4x0.15	M12 Connector	5φ 3x0.34/ 5.0φ 4x0.25

F7SF-M1202A-O3L2	11	F7SN-M1204A-O3L2	F7SF-M1202A-OEL4	11	F7SN-M1204A-OEL4	F7SF-M1805A-O3L2	11	F7SN-M1808A-O3L2
F7SF-M1202A-C3L2	12	F7SN-M1204A-C3L2	F7SF-M1202A-CEL4	12	F7SN-M1204A-CEL4	F7SF-M1805A-C3L2	12	F7SN-M1808A-C3L2

METAL FACE INDUCTIVE PROXIMITY SENSOR



Diameter

M 18

M 30

● Flush ○ Non-flush

Switching Distance Sn: mm

5 mm

8 mm

10 mm

13mm

Housing Material

Stainless steel

Stainless steel

● With LED ○ Without LED

Operating Voltage

20-250VAC

20-250VAC

No load Current

<1.8mA

<1.8mA

Max load Current

400mA

400mA

Leakge Current

<1.8mA

<1.8mA

Surge Current

5A(20ms)

5A(20ms)

Min Load Current

5mA

5mA

Voltage Drop

<8VAC AT 400MA

<8VAC at 400MA

Switching Frequency

<25HZ

<25HZ

Response Time

10ms/10ms

10ms/10ms

Switching Hysteresis

<15%(Sr)

<15%(Sr)

Repeat Accuracy

<1.0%(Sr)

<1.0%(Sr)

Protection Category

IP67

IP67

Operating Temperature

-25 °C - +70 °C

-25 °C - +70 °C

Temperature Drift

<10%(Sr)

<10%(Sr)

Short circuit protection

NO

NO

Material Active Face

Stainless steel

Stainless steel

Cable 2M(PVC)

M12 Connector

5.0φ 3x0.34

Product model :

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 4 Wire 10-30V Changeover PNP (N.O & N.C)

DC 4 Wire 10-30V Changeover NPN (N.O & N.C)

DC 2 Wire 10-60V N.O

DC 2 Wire 10-60V 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

AC 3 Wire 20-250V N.O

F7SF-M1805A-OEL4 | 11 | F7SN-M1808A-OEL4

F7SF-M3010A-O3L2 | 11 | F7SN-M3013A-O3L2

AC 3 Wire 20-250V N.C

F7SF-M1805A-CEL4 | 12 | F7SN-M1808A-CEL4

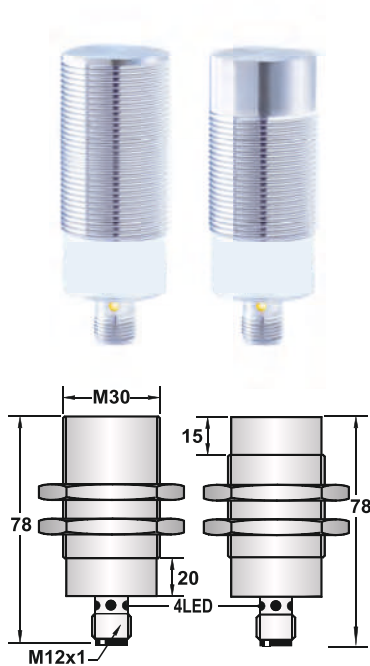
F7SF-M3010A-C3L2 | 12 | F7SN-M3013A-C3L2

AC 4 Wire 20-250V Changover PNP (N.C & N.C)

AC/DC 3 Wire 20-250V N.O

AC/DC 3 Wire 20-250V N.C

AC/DC 4 Wire 20-250V Changover PNP (N.C & N.C)



M 30

●
10 mm

○
13 mm

Stainless steel

●

20-250VAC

<1.8mA

400mA

<1.8mA

5A(20ms)

5mA

<8VAC at 400MA

<25HZ

10ms/10ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70 °C

<10%(Sr)

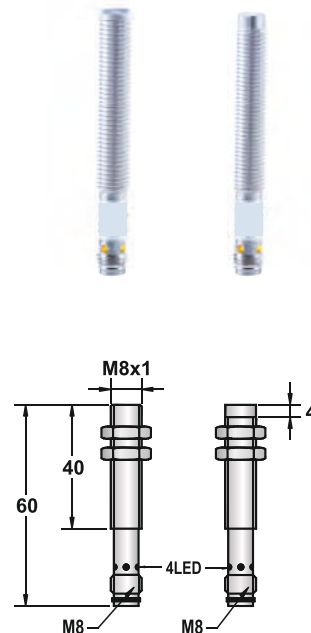
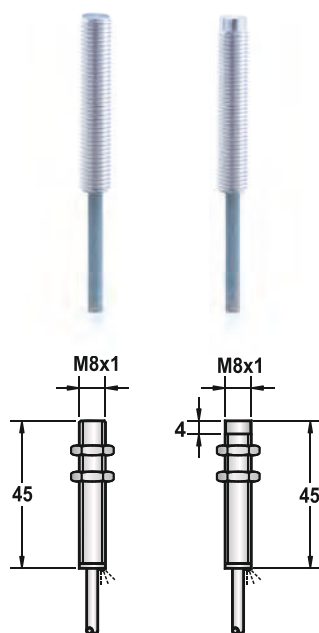
NO

Stainless steel

M12 Connector

F7SF-M3010A-OEL4	11	F7SN-M3013A-OEL4
F7SF-M3010A-CEL4	12	F7SN-M3013A-CEL4

**METAL FACE INDUCTIVE
PROXIMIT SENSOR**
(Special detection type
Ferrous only detection,
Non-Ferrous only detection)



Diameter

M 8

M 8

● Flush ○ Non-flush

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Operating Voltage

Ripple

No load Current

Max load Current

Leakge Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short circuit protection/reverse polarity protection

Overload Trip Point

Material Active Face

Cable 2M(PVC)

Product model:

Ferrous only detection:

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

F1SF-M0801N-O3U2-FE

1

F1SN-M0802N-O3U2-FE

F1SF-M0801N-OPU3-FE

1

F1SN-M0802N-OPU3-FE

F1SF-M0801N-C3U2-FE

2

F1SN-M0802N-C3U2-FE

F1SF-M0801N-CPU3-FE

2

F1SN-M0802N-CPU3-FE

F1SF-M0801P-O3U2-FE

3

F1SN-M0802P-O3U2-FE

F1SF-M0801P-OPU3-FE

3

F1SN-M0802P-OPU3-FE

F1SF-M0801P-C3U2-FE

4

F1SN-M0802P-C3U2-FE

F1SF-M0801P-CPU3-FE

4

F1SN-M0802P-CPU3-FE

Non-Ferrous only detection:

DC 3 wire 10-30V NPN N.O

DC 3 Wire 10-30V NPN N.C

DC 3 Wire 10-30V PNP N.O

F1SF-M0801N-O3U2-NF

1

F1SN-M0802N-O3U2-NF

F1SF-M0801N-OPU3-NF

1

F1SN-M0802N-OPU3-NF

F1SF-M0801N-C3U2-NF

2

F1SN-M0802N-C3U2-NF

F1SF-M0801N-CPU3-NF

2

F1SN-M0802N-CPU3-NF

F1SF-M0801P-O3U2-NF

3

F1SN-M0802P-O3U2-NF

F1SF-M0801P-OPU3-NF

3

F1SN-M0802P-OPU3-NF

F1SF-M0801P-C3U2-NF

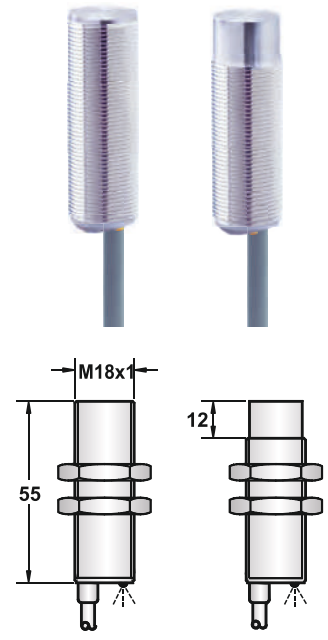
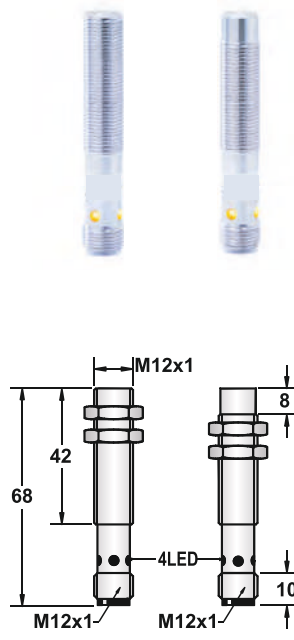
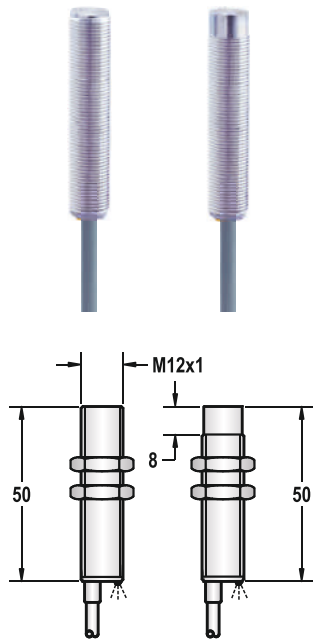
4

F1SN-M0802P-C3U2-NF

F1SF-M0801P-CPU3-NF

4

F1SN-M0802P-CPU3-NF



M 12

2 mm 4 mm

Stainless steel

10-30VDC/5-36VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

2KHZ

0.1ms/0.1ms

1KHZ

0.2ms/0.2ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

Stainless steel

4φ 3x0.15

M 12

2 mm 4 mm

Stainless steel

10-30VDC/5-36V/10-55VDC/10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

2KHZ

0.1ms/0.1ms

1KHZ

0.2ms/0.2ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

Stainless steel

M12 Connector

M 18

5 mm 8 mm

Stainless steel

10-30VDC/ 5-36VDC/ 10-55VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.2ms/0.2ms

500HZ

0.5ms/0.5ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

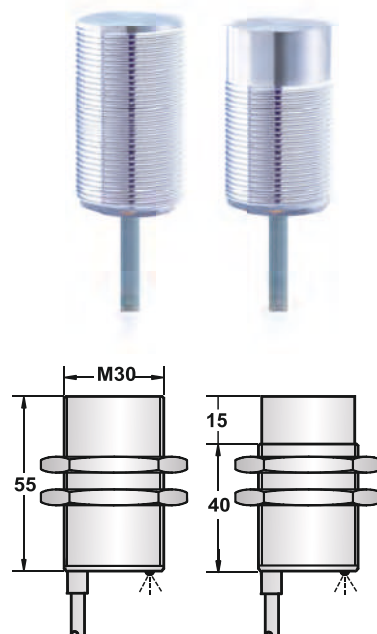
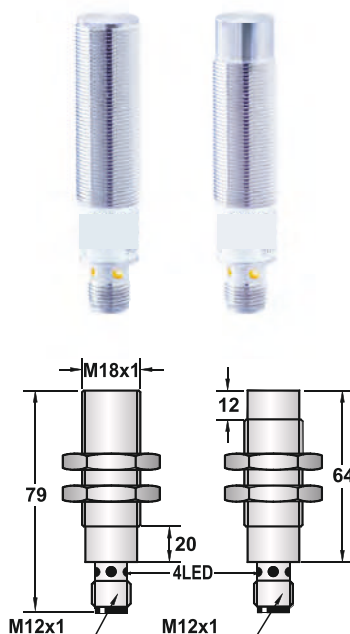
220mA

Stainless steel

5.0φ 3x0.34

F1SF-M1202N-O3U2-FE	1	F1SN-M1204N-O3U2-FE	F1SF-M1202N-OEU4-FE	1	F1SN-M1204N-OEU4-FE	F1SF-M1805N-O3U2-FE	1	F1SN-M1808N-O3U2-FE
F1SF-M1202N-C3U2-FE	2	F1SN-M1204N-C3U2-FE	F1SF-M1202N-OEU4-FE	2	F1SN-M1204N-CEU4-FE	F1SF-M1805N-C3U2-FE	2	F1SN-M1808N-C3U2-FE
F1SF-M1202P-O3U2-FE	3	F1SN-M1204P-O3U2-FE	F1SF-M1202P-OEU4-FE	3	F1SN-M1204P-OEU4-FE	F1SF-M1805P-O3U2-FE	3	F1SN-M1808P-O3U2-FE
F1SF-M1202P-C3U2-FE	4	F1SN-M1204P-C3U2-FE	F1SF-M1202P-CEU4-FE	4	F1SN-M1204P-CEU4-FE	F1SF-M1805P-C3U2-FE	4	F1SN-M1808P-C3U2-FE
F1SF-M1202N-O3U2-NF	1	F1SN-M1204N-O3U2-NF	F1SF-M1202N-OEU4-NF	1	F1SN-M1204N-OEU4-NF	F1SF-M1805N-O3U2-NF	1	F1SN-M1808N-O3U2-NF
F1SF-M1202N-C3U2-NF	2	F1SN-M1204N-C3U2-NF	F1SF-M1202N-OEU4-NF	2	F1SN-M1204N-CEU4-NF	F1SF-M1805N-C3U2-NF	2	F1SN-M1808N-C3U2-NF
F1SF-M1202P-O3U2-NF	3	F1SN-M1204P-O3U2-NF	F1SF-M1202P-OEU4-NF	3	F1SN-M1204P-OEU4-NF	F1SF-M1805P-O3U2-NF	3	F1SN-M1808P-O3U2-NF
F1SF-M1202P-C3U2-NF	4	F1SN-M1204P-C3U2-NF	F1SF-M1202P-CEU4-NF	4	F1SN-M1204P-CEU4-NF	F1SF-M1805P-C3U2-NF	4	F1SN-M1808P-C3U2-NF

**METAL FACE INDUCTIVE
PROXIMIT SENSOR**
Special detection type
(Ferrous only detection,
Non-ferrous detection)


Diameter
M18
M 30

● Flush ○ Non-flush

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Operating Voltage

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/reverse polarity protection

Overload Trip Point

Material Active Face

Cable 2M(PVC)

Product model:

Ferrous only detection:

DC 3 wire 10-30V NPN N.O	F1SF-M1805N-OEU4-FE	1	F1SN-M1808N-OEU4-FE	F1SF-M3010N-O3U2-FE	1	F1SN-M3013N-O3U2-FE
DC 3 Wire 10-30V NPN N.C	F1SF-M1805N-CEU4-FE	2	F1SN-M1808N-CEU4-FE	F1SF-M3010N-C3U2-FE	2	F1SN-M3013N-C3U2-FE
DC 3 Wire 10-30V PNP N.O	F1SF-M1805P-OEU4-FE	3	F1SN-M1808P-OEU4-FE	F1SF-M3010P-O3U2-FE	3	F1SN-M3013P-O3U2-FE
DC 3 Wire 10-30V PNP N.C	F1SF-M1805P-CEU4-FE	4	F1SN-M1808P-CEU4-FE	F1SF-M3010P-C3U2-FE	4	F1SN-M3013P-C3U2-FE

Non-Ferrous only detection:

DC 3 wire 10-30V NPN N.O	F1SF-M1805N-OEU4-NF	1	F1SN-M1808N-OEU4-NF	F1SF-M3010N-O3U2-NF	1	F1SN-M3013N-O3U2-NF
DC 3 Wire 10-30V NPN N.C	F1SF-M1805N-CEU4-NF	2	F1SN-M1808N-CEU4-NF	F1SF-M3010N-C3U2-NF	2	F1SN-M3013N-C3U2-NF
DC 3 Wire 10-30V PNP N.O	F1SF-M1805P-OEU4-NF	3	F1SN-M1808P-OEU4-NF	F1SF-M3010P-O3U2-NF	3	F1SN-M3013P-O3U2-NF
DC 3 Wire 10-30V PNP N.C	F1SF-M1805P-CEU4-NF	4	F1SN-M1808P-CEU4-NF	F1SF-M3010P-C3U2-NF	4	F1SN-M3013P-C3U2-NF