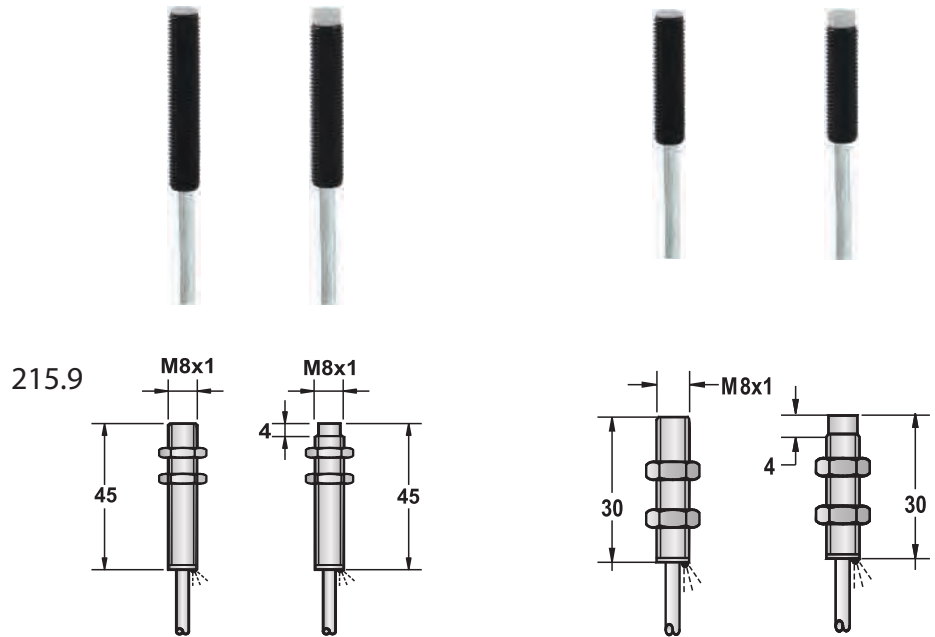


WELD IMMUNE SENSOR



Diameter

M8

M8

● Flush ○ Non-Flush

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

●

1 mm

○

2 mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70 °C

<10%(Sr)

YES

220mA

PTFE

PTFE

●

1 mm

○

2 mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70 °C

<10%(Sr)

YES

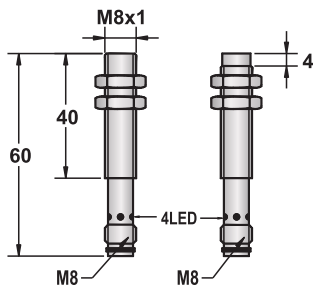
220mA

PTFE

PTFE

Product Model:

DC 3 wire 10-30V NPN N.O	W1CF-M0801N-O3U2	1	W1CN-M0802N-O3U2	W1CF-M0801N-O3S2	1	W1CN-M0802N-O3S2
DC 3 Wire 10-30V NPN N.C	W1CF-M0801N-C3U2	2	W1CN-M0802N-C3U2	W1CF-M0801N-C3S2	2	W1CN-M0802N-C3S2
DC 3 Wire 10-30V PNP N.O	W1CF-M0801P-O3U2	3	W1CN-M0802P-O3U2	W1CF-M0801P-O3S2	3	W1CN-M0802P-O3S2
DC 3 Wire 10-30V PNP N.C	W1CF-M0801P-C3U2	4	W1CN-M0802P-C3U2	W1CF-M0801P-C3S2	4	W1CN-M0802P-C3S2
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)	W1CF-M0801P-S4U2	6	W1CN-M0802P-S4U2	W1CF-M0801P-S4S2	6	W1CN-M0802P-S4S2
DC 4 Wire 10-30V Changeover NPN (N.O & NC)	W1CF-M0801N-S4U2	5	W1CN-M0802N-S4U2	W1CF-M0801N-S4S2	5	W1CN-M0802N-S4S2
DC 2 Wire 10-60V NO	W4CF-M0801C-O2U2	7	W4CN-M0802C-O2U2	W4CF-M0801C-O2S2	7	W4CN-M0802C-O2S2
DC 2 Wire 10-60V NC	W4CF-M0801C-C2U2	8	W4CN-M0802C-C2U2	W4CF-M0801C-C2S2	8	W4CN-M0802C-C2S2



M8

1 mm 2 mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25 °C - +70 °C

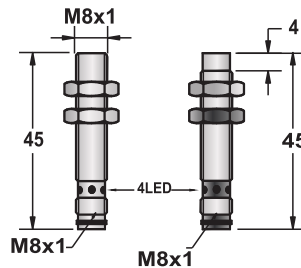
<10%(Sr)

YES

220mA

PTFE

M8 Connector



M8

1mm 2mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms/0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25 °C - +70 °C

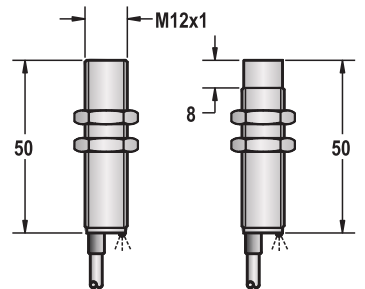
<10%(Sr)

YES

220mA

PTFE

M8 Connector



M12

2mm 4mm

PTFE-Brass Plated

10-30VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25 °C - +70 °C

<10%(Sr)

YES

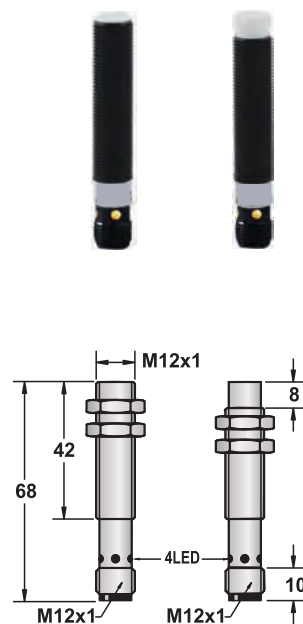
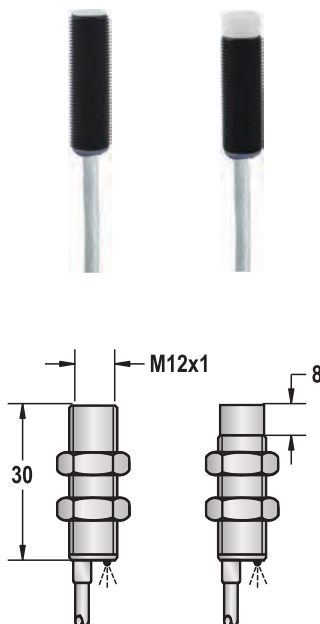
220mA

PTFE

PTFE

W1CF-M0801N-OPU3	1	W1CF-M0802N-OPU3	1	W1CF-M0801N-OPS3	1	W1CN-M0802N-OPS3	1	W1CF-M1202N-O3U2	1	W1CN-M1204N-O3U2	1
W1CF-M0801N-CPU3	2	W1CF-M0802N-CPU3	2	W1CF-M0801N-CPS3	2	W1CN-M0802N-CPS3	2	W1CF-M1202N-C3U2	2	W1CN-M1204N-C3U2	2
W1CF-M0801P-OPU3	3	W1CF-M0802P-OPU3	3	W1CF-M0801P-OPS3	3	W1CN-M0802P-OPS3	3	W1CF-M1202P-O3U2	3	W1CN-M1204P-O3U2	3
W1CF-M0801P-CPU3	4	W1CF-M0802P-CPU3	4	W1CF-M0801P-CPS3	4	W1CN-M0802P-CPS3	4	W1CF-M1202P-C3U2	4	W1CN-M1204P-C3U2	4
W1CF-M0801P-SPU4	6	W1CF-M0802P-SPU4	6	W1CF-M0801P-SPU4	6	W1CN-M0802P-SPS4	6	W1CF-M1202P-S4U2	6	W1CN-M1204P-S4U2	6
W1CF-M0801N-SPU4	5	W1CF-M0802N-SPU4	5	W1CF-M0801N-SPU4	5	W1CN-M0802N-SPS4	5	W1CF-M1202N-S4U2	5	W1CN-M1204N-S4U2	5
W4CF-M0801C-OPU3	7	W4CF-M0802C-OPU3	7	W4CF-M0801C-OPS3	7	W4CN-M0802C-OPS3	7	W4CF-M1202C-O2U2	7	W4CN-M1204C-O2U2	7
W4CF-M0801C-OPU3	8	W4CF-M0802C-CPU3	8	W4CF-M0801C-CPS3	8	W4CN-M0802C-CPS3	8	W4CF-M1202C-C2U2	8	W4CN-M1204C-C2U2	8

WELD IMMUNE SENSOR



Diameter

M12

M12

● 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

Constancy Magnetic B

Interchange Magnetic B

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short circuit protection/reverse polarity protection

Overload Trip Point

Material Active Face

Cable 2M(PTFE):

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 & NC)

DC 2 Wire 10-60V NO

DC 2 Wire 10-60V NC

2mm

4mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

800HZ

0.1ms

0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

PTFE

PTFE

2mm

4mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%

<10mA

200mA

<0.01mA

<1.5V

1KHZ

800HZ

0.1ms

0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

PTFE

PTFE

W1CF-M1202N-O3S2

1

W1CN-M1204N-O3S2

W1CF-M1202N-OEU4

1

W1CN-M1204N-OEU4

W1CF-M1202N-C3S2

2

W1CN-M1204N-C3S2

W1CF-M1202N-CEU4

2

W1CN-M1204N-CEU4

W1CF-M1202P-O3S2

3

W1CN-M1204P-O3S2

W1CF-M1202P-OEU4

3

W1CN-M1204P-OEU4

W1CF-M1202P-C3S2

4

W1CN-M1204P-C3S2

W1CF-M1202P-CEU4

4

W1CN-M1204P-CEU4

W1CF-M1202P-S4S2

5

W1CN-M1204P-S4S2

W1CF-M1202P-SEU4

5

W1CN-M1204P-SEU4

W1CF-M1202N-S4S2

6

W1CN-M1204N-S4S2

W1CF-M1202N-SEU4

6

W1CN-M1204N-SEU4

W4CF-M1202C-O2S2

7

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7

W4CN-M1204C-OEU4

W4CF-M1202C-C2S2

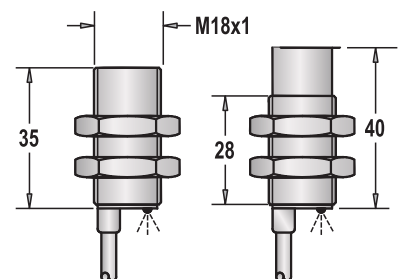
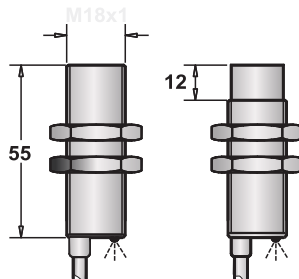
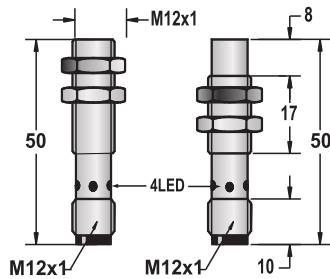
8

W4CN-M1204C-C2S2

W4CF-M1202C-CEU4

8

W4CN-M1204C-CEU4



M12

2mm 4mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

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

1KHZ 800KHZ
0.1ms 0.1ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

PTFE

M12 Connector

M18

5mm 8mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

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

800KHZ 500KHZ
0.2ms 0.5ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

PTFE

PTFE

M18

5mm 8mm

PTFE-Brass Plated

10-30VDC

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

800KHZ 500KHZ
0.1ms 0.2ms

<15%(Sr)

150mT

150mT

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

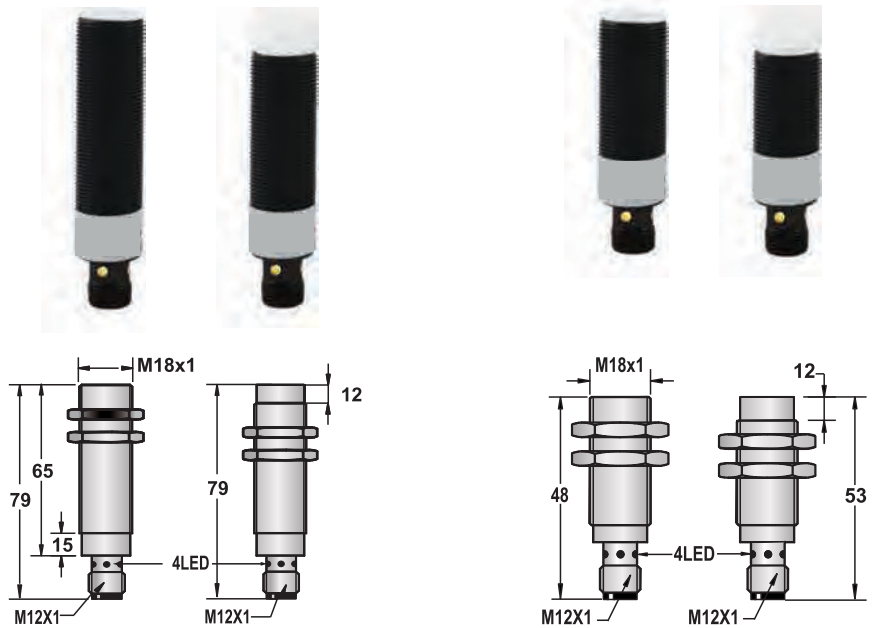
220mA

PTFE

PTFE

W1CF-M1202N-OES4	1	W1CN-M1204N-OES4	W1CF-M1805N-O3U2	1	W1CN-M1808N-O3U2	W1CF-M1805N-O3S2	1	W1CN-M1808N-O3S2
W1CF-M1202N-OES4	2	W1CN-M1204N-CES4	W1CF-M1805N-C3U2	2	W1CN-M1808N-C3U2	W1CF-M1805N-C3S2	2	W1CN-M1808N-C3S2
W1CF-M1202P-OES4	3	W1CN-M1204P-OES4	W1CF-M1805P-O3U2	3	W1CN-M1808P-O3U2	W1CF-M1805P-O3S2	3	W1CN-M1808P-O3S2
W1CF-M1202P-CES4	4	W1CN-M1204P-CES4	W1CF-M1805P-C3U2	4	W1CN-M1808P-C3U2	W1CF-M1805P-C3S2	4	W1CN-M1808P-C3S2
W1CF-M1202P-SES4	5	W1CN-M1204P-SES4	W1CF-M1805P-S4U2	6	W1CN-M1808P-S4U2	W1CF-M1805P-S4S2	6	W1CN-M1808P-S4S2
W1CF-M1202N-SES4	6	W1CN-M1204N-SES4	W1CF-M1805N-S4U2	5	W1CN-M1808N-S4U2	W1CF-M1805N-S4S2	5	W1CN-M1808N-S4S2
W4CF-M1202C-OES4	7	W4CN-M1204C-OES4	W4CF-M1805C-O2U2	7	W4CN-M1808C-O3U2	W4CF-M1805C-O2S2	7	W4CN-M1808C-O2S2
W4CF-M1202C-OES4	8	W4CN-M1204C-CES4	W4CF-M1805C-C2U2	8	W4CN-M1808C-C3U2	W4CF-M1805C-C2S2	8	W4CN-M1808C-C2S2

WELD IMMUNE SENSOR

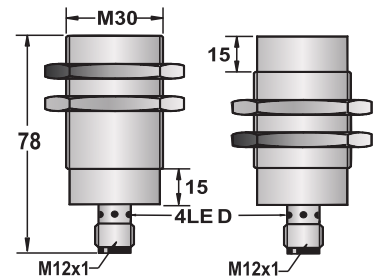
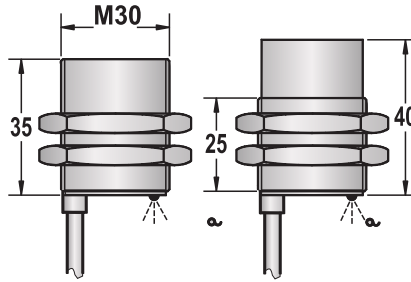
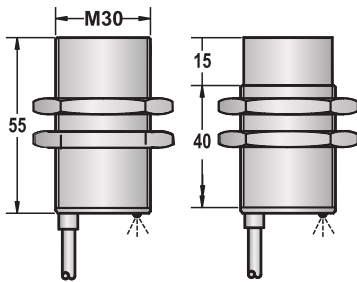


Diameter

M18

M18

● Flush	○ Non-Flush	●	○	●	○	
Switching Distance Sn: mm		5 mm	8 mm	5 mm	8 mm	
Housing Material		PTFE-Brass Plated		PTFE-Brass Plated		
● With LED	○ Without LED	●		●		
Operating Voltage		10-30VDC / 10-60VDC		10-30VDC / 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		800KHZ	500KHZ	800KHZ	500KHZ	
Response time		0.1ms	0.1ms	0.1ms	0.1ms	
Switching Hysteresis		<15%(Sr)		<15%(Sr)		
Constancy Magnetic B		150mT		150mT		
Interchange Magnetic B		150mT		150mT		
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		PTFE		PTFE		
Connection:		M12 Connector		M12 Connector		
Product Model:						
DC 3 wire 10-30V NPN N.O	W1CF-M1806N-OEU4	1	W1CN-M1808N-OEU4	W1CF-M1806N-OES4	1	W1CN-M1808N-OES4
DC 3 Wire 10-30V NPN N.C	W1CF-M1805N-CEU4	2	W1CN-M1808N-CEU4	W1CF-M1805N-CES4	2	W1CN-M1808N-CES4
DC 3 Wire 10-30V PNP N.O	W1CF-M1805P-OEU4	3	W1CN-M1808P-OEU4	W1CF-M1805P-OES4	3	W1CN-M1808P-OES4
DC 3 Wire 10-30V PNP N.C	W1CF-M1805P-CEU4	4	W1CN-M1808P-CEU4	W1CF-M1805P-CES4	4	W1CN-M1808P-CES4
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)	W1CF-M1805P-SEU4	6	W1CN-M1808P-SEU4	W1CF-M1805P-SES4	6	W1CN-M1808P-SES4
DC 4 Wire 10-30V Changeover NPN (N.O & NC)	W1CF-M1805N-SEU4	5	W1CN-M1808N-SEU4	W1CF-M1805N-SES4	5	W1CN-M1808N-SEU4
DC 2 Wire 10-60V NO	W4CF-M1805C-OEU4	7	W4CN-M1808C-OEU4	W4CF-M1805C-OES4	7	W4CN-M1808C-OES4
DC 2 Wire 10-60V NC	W4CF-M1805C-CEU4	8	W4CN-M1808C-CEU4	W4CF-M1805C-CES4	8	W4CN-M1808C-CES4



M30

10mm 15mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%
<10mA
200mA
<0.01mA
<1.5V
200KHZ
0.5ms/0.5ms
<15%(Sr)
100mT
100mT
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
YES
220mA
PTFE
PTFE

M30

10mm 15mm

PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%
<10mA
200mA
<0.01mA
<1.5V
200KHZ
0.5ms/0.5ms
<15%(Sr)
100mT
100mT
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
YES
220mA
PTFE
PTFE

M30

10mm 15mm

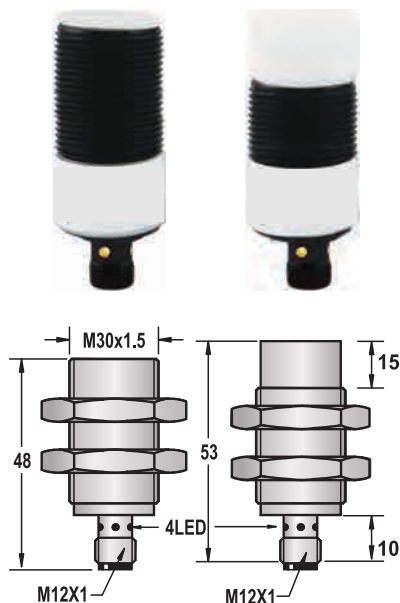
PTFE-Brass Plated

10-30VDC / 10-60VDC

<10%
<10mA
200mA
<0.01mA
<1.5V
200KHZ
0.5ms/0.5ms
<15%(Sr)
100mT
100mT
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
YES
220mA
PTFE
M12 Connector

W1CF-M3010N-O3U2	1	W1CN-M3015N-O3U2	W1CF-M3010N-O3S2	1	W1CN-M3015N-O3S2	W1CF-M3010N-OEU4	1	W1CN-M3015N-OEU4
W1CF-M3010N-O3U2	2	W1CN-M3015N-C3U2	W1CF-M3010N-C3S2	2	W1CN-M3015N-C3S2	W1CF-M3010N-CEU4	2	W1CN-M3015N-CEU4
W1CF-M3010P-O3U2	3	W1CN-M3015P-O3U2	W1CF-M3010P-O3S2	3	W1CN-M3015P-O3S2	W1CF-M3010P-OEU4	3	W1CN-M3015P-OEU4
W1CF-M3010P-C3U2	4	W1CN-M3015P-C3U2	W1CF-M3010P-C3S2	4	W1CN-M3015P-C3S2	W1CF-M3010P-CEU4	4	W1CN-M3015P-CEU4
W1CF-M3010P-S4S2	6	W1CN-M3015P-S4U2	W1CF-M3010P-S4S2	6	W1CN-M3015P-S4S2	W1CF-M3010P-SEU4	6	W1CN-M3015P-SEU4
W1CF-M3010N-S4S2	5	W1CN-M3015N-S4U2	W1CF-M3010N-S4S2	5	W1CN-M3015N-S4S2	W1CF-M3010N-SEU4	5	W1CN-M1808N-SEU4
W4CF-M3010C-O3U2	7	W4CN-M3015C-O3U2	W4CF-M3010C-O2S2	7	W4CN-M3015C-O3S2	W4CF-M3010C-OEU4	7	W4CN-M3015C-OEU4
W4CF-M3010C-O3U2	8	W4CN-M3015C-C3U2	W4CF-M3010C-C2S2	8	W4CN-M3015C-C3S2	W4CF-M3010C-CEU4	8	W4CN-M3015C-CEU4

WELD IMMUNE SENSOR



Diameter

M30

● 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

Constancy Magnetic B

Interchange Magnetic B

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short circuit protection/reverse polarity protection

Overload Trip Point

Material Active Face

Connection:

Product Model:

DC 3 wire 10-30V NPN N.O	W1CF-M3010N-OES4	1	W1CN-M3015N-OES4
DC 3 Wire 10-30V NPN N.C	W1CF-M3010N-CES4	2	W1CN-M3015N-CES4
DC 3 Wire 10-30V PNP N.O	W1CF-M3010P-OES4	3	W1CN-M3015P-OES4
DC 3 Wire 10-30V PNP N.C	W1CF-M3010P-CES4	4	W1CN-M3015P-CES4
DC 4 Wire 10-30V Changeover PNP (N.O & N.C)	W1CF-M3010P-SES4	6	W1CN-M3015P-SES4
DC 4 Wire 10-30V Changeover NPN (N.O & NC)	W1CF-M3010N-SES4	5	W1CN-M3015N-SES4
DC 2 Wire 10-60V NO	W4CF-M3010C-OES4	7	W4CN-M3015C-OES4
DC 2 Wire 10-60V NC	W4CF-M3010C-CES4	8	W4CN-M3015C-CES4