

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

Diameter
● Shielded ○ Non-shielded
Switching Distance Sn: mm
Housing Material
● With LED ○ Without LED

Picture

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
Overload Trip Point
Material Active Face

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.
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 Changeover PNP (N.O. & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)

Dimensions (unit: mm)
* : DC 2wire 10-60V specifications see page 3-05. Other is same.

Cable 2M (PVC)
Weight

M30
● ○
10 mm 15 mm
Stainless steel
●

Picture

10-30VDC / 10-55VDC / 10-60VDC
<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
Stainless steel

P1C1F3010NO3L2	1	P1C2F3015NO3L2
P1C1F3010NC3L2	2	P1C2F3015NC3L2
P1C1F3010PO3L2	3	P1C2F3015PO3L2
P1C1F3010PC3L2	4	P1C2F3015PC3L2
P4C1F3010CO2L2	7	P4C2F3015CO2L2
P4C1F3010CC2L2	8	P4C2F3015CC2L2
P3C1F3010NO3L2	1	P3C2F3015NO3L2
P3C1F3010NC3L2	2	P3C2F3015NC3L2
P3C1F3010PO3L2	3	P3C2F3015PO3L2
P3C1F3010PC3L2	4	P3C2F3015PC3L2

M30
15
38
5
58

5.8φ3x0.5 or 5.8φ3x0.5
approx.217 g approx.207 g

M30
● ○
10 mm 15 mm
Stainless steel
●

Picture

10-30VDC / 10-55VDC / 10-60VDC
<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
Stainless steel

P1C1F3010NO3A2	1	P1C2F3015NO3A2
P1C1F3010NC3A2	2	P1C2F3015NC3A2
P1C1F3010PO3A2	3	P1C2F3015PO3A2
P1C1F3010PC3A2	4	P1C2F3015PC3A2
P4C1F3010CO2A2	7	P4C2F3015CO2A2
P4C1F3010CC2A2	8	P4C2F3015CC2A2
P3C1F3010NO3A2	1	P3C2F3015NO3A2
P3C1F3010NC3A2	2	P3C2F3015NC3A2
P3C1F3010PO3A2	3	P3C2F3015PO3A2
P3C1F3010PC3A2	4	P3C2F3015PC3A2

M30
15
35
5
55

5.8φ3x0.5 or 5.8φ3x0.5
approx.217 g approx.207 g

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

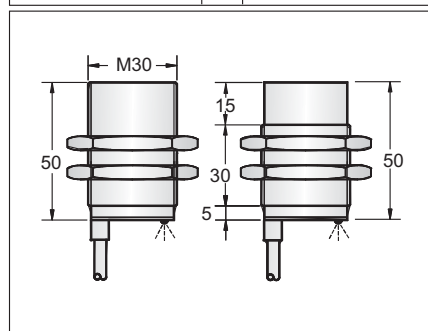
M30	
●	○
10 mm	15 mm
Stainless steel	
●	



10-30VDC / 10-55VDC / 10-60VDC	
<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	
stainless steel	

P1C1F3010NO3R2	1	P1C2F3015NO3R2
P1C1F3010NC3R2	2	P1C2F3015NC3R2
P1C1F3010PO3R2	3	P1C2F3015PO3R2
P1C1F3010PC3R2	4	P1C2F3015PC3R2

P4C1F3010CO2R2	7	P4C2F3015CO2R2
P4C1F3010CC2R2	8	P4C2F3015CC2R2
P3C1F3010NO3R2	1	P3C2F3015NO3R2
P3C1F3010NC3R2	2	P3C2F3015NC3R2
P3C1F3010PO3R2	3	P3C2F3015PO3R2
P3C1F3010PC3R2	4	P3C2F3015PC3R2



5.8 ϕ 3x0.5 or 5.8 ϕ 4x0.5	
Approx.195g	Approx.190g

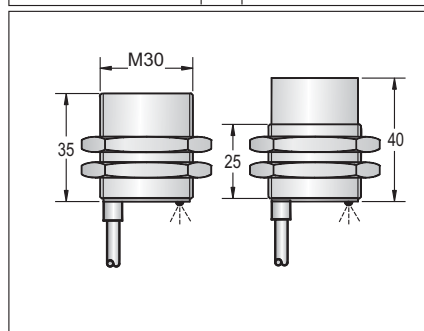
M30	
●	○
10 mm	15 mm
Stainless steel	
●	



10-30VDC / 10-55VDC / 10-60VDC	
<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	
stainless steel	

P1C1F3010NO3S2	1	P1C2F3015NO3S2
P1C1F3010NC3S2	2	P1C2F3015NC3S2
P1C1F3010PO3S2	3	P1C2F3015PO3S2
P1C1F3010PC3S2	4	P1C2F3015PC3S2

P4C1F3010CO2S2	7	P4C2F3015CO2S2
P4C1F3010CC2S2	8	P4C2F3015CC2S2
P3C1F3010NO3S2	1	P3C2F3015NO3S2
P3C1F3010NC3S2	2	P3C2F3015NC3S2
P3C1F3010PO3S2	3	P3C2F3015PO3S2
P3C1F3010PC3S2	4	P3C2F3015PC3S2



5.8 ϕ 3x0.5 or 5.8 ϕ 4x0.5	
Approx.180 g	Approx.182 g

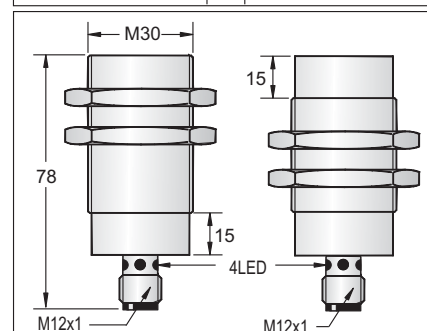
M30	
●	○
10 mm	15 mm
Stainless steel	
●	



10-30VDC / 10-55VDC / 10-60VDC	
<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	
stainless steel	

P1C1F3010NOEA4	31	P1C2F3015NOEA4
P1C1F3010NCEA4	32	P1C2F3015NCEA4
P1C1F3010POEA4	33	P1C2F3015POEA4
P1C1F3010PCEA4	34	P1C2F3015PCEA4

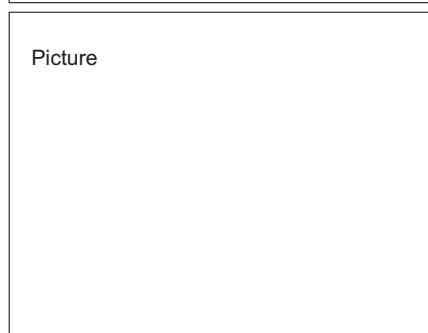
P4C1F3010COEA4	37	P4C2F3015COEA4
P4C1F3010CCEA4	38	P4C2F3015CCEA4
P3C1F3010NOEA4	31	P3C2F3015NOEA4
P3C1F3010NCEA4	32	P3C2F3015NCEA4
P3C1F3010POEA4	33	P3C2F3015POEA4
P3C1F3010PCEA4	34	P3C2F3015PCEA4



approx.187 g	approx.179 g
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DC METAL FACE INDUCTIVE PROXIMITY SENSORS

Diameter
● Shielded ○ Non-shielded
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
Overload Trip Point
Material Active Face

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.
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 Changeover PNP (N.O. & N.C.)
DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)

Dimensions (unit: mm)
* : DC 2wire 10-60V specifications see page 3-05. Other is same.

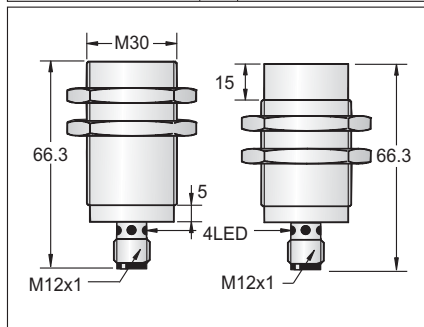
Cable 2M (PVC)
Weight

M30
● ○
10 mm 15 mm
Stainless steel
●



10-30VDC / 10-55VDC / 10-60VDC
<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
stainless steel

P1C1F3010NOEM4	31	P1C2F3015NOEM4
P1C1F3010NCEM4	32	P1C2F3015NCEM4
P1C1F3010POEM4	33	P1C2F3015POEM4
P1C1F3010PCEM4	34	P1C2F3015PCEM4
P4C1F3010COEM4	37	P4C2F3015COEM4
P4C1F3010CCEM4	38	P4C2F3015CCEM4
P3C1F3010NOEM4	31	P3C2F3015NOEM4
P3C1F3010NCEM4	32	P3C2F3015NCEM4
P3C1F3010POEM4	33	P3C2F3015POEM4
P3C1F3010PCEM4	34	P3C2F3015PCEM4



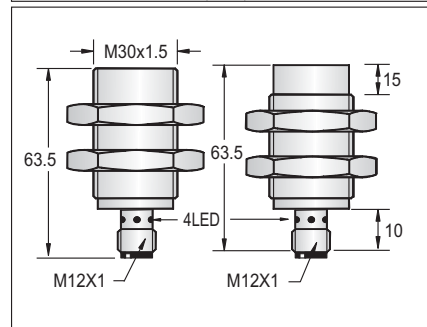
Approx.168 g	Approx.165 g
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M30
● ○
10 mm 15 mm
Stainless steel
●



10-30VDC / 10-55VDC / 10-60VDC
<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
stainless steel

P1C1F3010NOER4	31	P1C2F3015NOER4
P1C1F3010NCER4	32	P1C2F3015NCER4
P1C1F3010POER4	33	P1C2F3015POER4
P1C1F3010PCER4	34	P1C2F3015PCER4
P4C1F3010COER4	37	P4C2F3015COER4
P4C1F3010CCER4	38	P4C2F3015CCER4
P3C1F3010NOER4	31	P3C2F3015NOER4
P3C1F3010NCER4	32	P3C2F3015NCER4
P3C1F3010POER4	33	P3C2F3015POER4
P3C1F3010PCER4	34	P3C2F3015PCER4



Approx.160 g	Approx.155 g
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DC METAL FACE INDUCTIVE PROXIMITY SENSORS

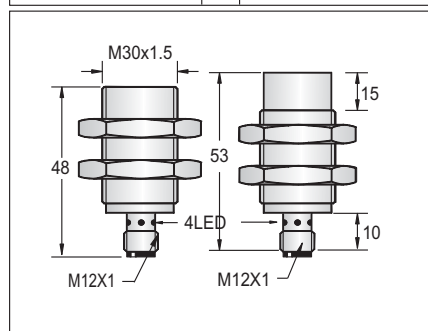
M30	
●	○
10 mm	15 mm
Stainless Steel	
●	



10-30VDC / 10-55VDC / 10-60VDC	
<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	
stainless steel	

P1C1F3010NOES4	31	P1C2F3015NOES4
P1C1F3010NCES4	32	P1C2F3015NCES4
P1C1F3010POES4	33	P1C2F3015POES4
P1C1F3010PCES4	34	P1C2F3015PCES4

P4C1F3010COES4	37	P4C2F3015COES4
P4C1F3010CCES4	38	P4C2F3015CCES4
P3C1F3010NOES4	31	P3C2F3015NOES4
P3C1F3010NCES4	32	P3C2F3015NCES4
P3C1F3010POES4	33	P3C2F3015POES4
P3C1F3010PCES4	34	P3C2F3015PCES4



Approx. 155 g	Approx. 145 g
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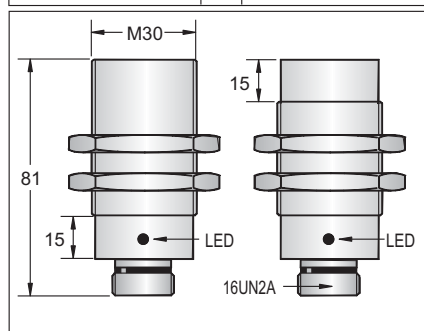
M30	
●	○
10 mm	15 mm
Stainless Steel	
●	



10-30VDC / 10-55VDC / 10-60VDC	
<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	
stainless steel	

P1C1F3010NOZA4	43	P1C2F3015NOZA4
P1C1F3010NCZA4	44	P1C2F3015NCZA4
P1C1F3010POZA4	45	P1C2F3015POZA4
P1C1F3010PCZA4	46	P1C2F3015PCZA4

P4C1F3010COZA4	49	P4C2F3015COZA4
P4C1F3010CCZA4	50	P4C2F3015CCZA4
P3C1F3010NOZA4	43	P3C2F3015NOZA4
P3C1F3010NCZA4	44	P3C2F3015NCZA4
P3C1F3010POZA4	45	P3C2F3015POZA4
P3C1F3010PCZA4	46	P3C2F3015PCZA4



Approx. 111 g	Approx. 121 g
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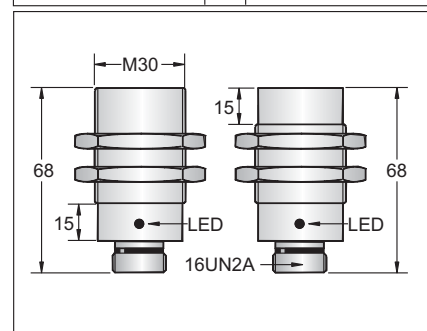
M30	
●	○
10 mm	15 mm
Stainless Steel	
●	



10-30VDC / 10-55VDC / 10-60VDC	
<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	
stainless steel	

P1C1F3010NOZR4	43	P1C2F3015NOZR4
P1C1F3010NCZR4	44	P1C2F3015NCZR4
P1C1F3010POZR4	45	P1C2F3015POZR4
P1C1F3010PCZR4	46	P1C2F3015PCZR4

P4C1F3010COZR4	49	P4C2F3015COZR4
P4C1F3010CCZR4	50	P4C2F3015CCZR4
P3C1F3010NOZR4	43	P3C2F3015NOZR4
P3C1F3010NCZR4	44	P3C2F3015NCZR4
P3C1F3010POZR4	45	P3C2F3015POZR4
P3C1F3010PCZR4	46	P3C2F3015PCZR4



Approx. 111 g	Approx. 121 g
---------------	---------------

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

Diameter

● Shielded ○ Non-shielded

Switching Distance Sn: mm

Housing Material

● With LED ○ Without LED

Picture

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

Overload Trip Point

Material Active Face

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.

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 Changeover PNP (N.O. & N.C.)

DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)

Dimensions (unit: mm)

Cable 2M (PVC)

Weight

M30

16 mm

25 mm

Stainless Steel



CE

10-30VDC

<10%

<10mA

200mA

<0.01mA

<2V

150HZ

100HZ

1ms/1ms

1ms/1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

Stainless steel

P1C1F3016NO3L2

1

P1C2F3025NO3L2

P1C1F3016NC3L2

2

P1C2F3025NC3L2

P1C1F3016PO3L2

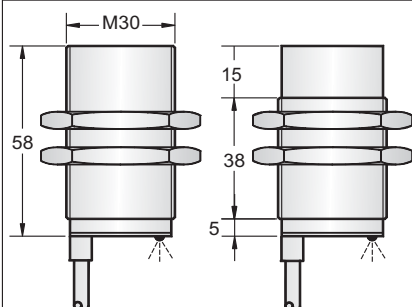
3

P1C2F3025PO3L2

P1C1F3016PC3L2

4

P1C2F3025PC3L2



5.8 ϕ 3x0.5

approx.217 g

approx.207 g

M30

16 mm

25 mm

Stainless Steel



CE

10-30VDC

<10%

<10mA

200mA

<0.01mA

<2V

150HZ

100HZ

1ms/1ms

1ms/1ms

<15%(Sr)

<1.0%(Sr)

IP67

-25°C - +70°C

<10%(Sr)

YES

220mA

Stainless steel

P1C1F3016NO3A2

1

P1C2F3025NO3A2

P1C1F3016NC3A2

2

P1C2F3025NC3A2

P1C1F3016PO3A2

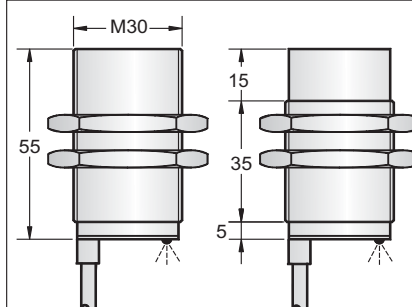
3

P1C2F3025PO3A2

P1C1F3016PC3A2

4

P1C2F3025PC3A2



5.8 ϕ 3x0.5

approx.217 g

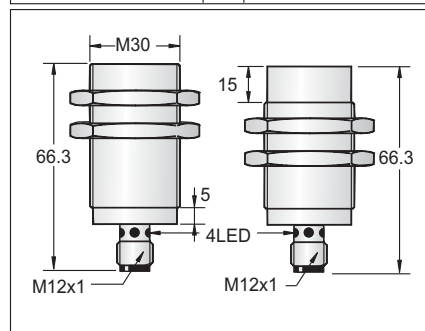
approx.207 g

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M30	
	
16 mm	25 mm
stainless steel	
	



10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
<2V	
150HZ	100HZ
1ms/1ms	1ms/1ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
Stainless steel	

[illegible]

approx. 168 g	approx. 165 g
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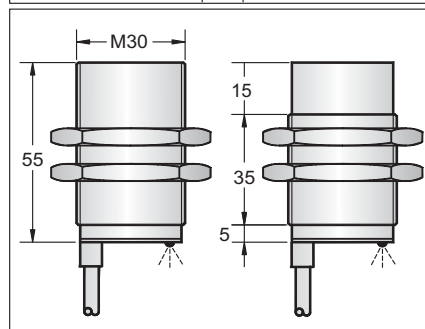
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M30	
●	○
22 mm	40 mm
Stainless steel	
●	



10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
<2V	
150HZ	100HZ
0.5ms/0.5ms	1ms/1ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
Stainless steel	

P1C1F3022NO3A2	1	P1C2F3040NO3A2
P1C1F3022NC3A2	2	P1C2F3040NC3A2
P1C1F3022PO3A2	3	P1C2F3040PO3A2
P1C1F3022PC3A2	4	P1C2F3040PC3A2



5.8 ϕ 3x0.5	
Approx.210 g	Approx.200 g

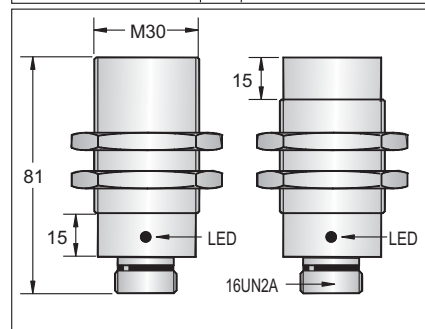
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M30	
	
22 mm	40mm
Stainless steel	
	



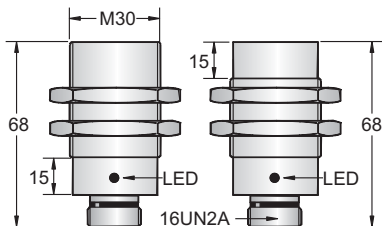
10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
<2V	
150HZ	100HZ
0.5ms/0.5ms	1ms/1ms
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
Stainless steel	

P1C1F3022NOZA4	43	P1C2F3040NOZA4
P1C1F3022NCZA4	44	P1C2F3040NCZA4
P1C1F3022POZA4	45	P1C2F3040POZA4
P1C1F3022PCZA4	46	P1C2F3040PCZA4

[illegible]

Approx.210 g	Approx.200 g

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

Diameter	M30		
● Shielded ○ Non-shielded	●	○	
Switching Distance Sn: mm	22 mm	40mm	
Housing Material	Stainless steel		
● With LED ○ Without LED	●		
Picture			
Operating Voltage	10-30VDC		
Ripple	<10%		
No Load Current	<10mA		
Max. Load Current	200mA		
Leakage Current	<0.01mA		
Voltage Drop	<2V		
Switching Frequency	150HZ	100HZ	
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	Stainless steel		
DC 3 wire 10-30V NPN N.O.	P1C1F3022NOZR4	43	P1C2F3040NOZR4
DC 3 wire 10-30V NPN N.C.	P1C1F3022NCZR4	44	P1C2F3040NCZR4
DC 3 wire 10-30V PNP N.O.	P1C1F3022POZR4	45	P1C2F3040POZR4
DC 3 wire 10-30V PNP N.C.	P1C1F3022PCZR4	46	P1C2F3040PCZR4
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.			
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 Changeover PNP (N.O. & N.C.)			
DC 4 wire 5-36V Changeover NPN (N.O. & N.C.)			
Dimensions (unit: mm)			
Cable 2M (PVC)			
Weight	Approx.200 g	Approx.190 g	