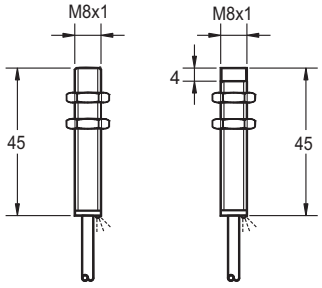
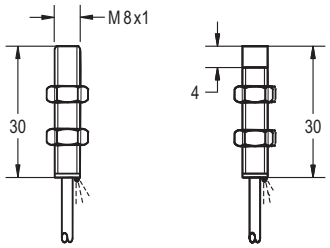
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

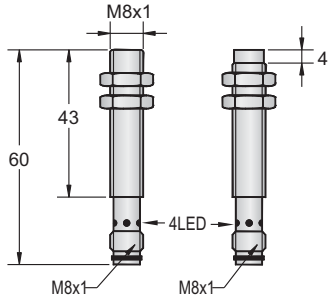
Diameter	M8		M8	
● Shielded ○ Non-shielded	●	○	●	○
Switching Distance Sn: mm	1mm	2mm	1mm	2mm
Housing Material	Stainless steel		Stainless steel	
● With LED ○ Without LED	●		●	
Picture				
Operating Voltage	10-30VDC		10-30VDC	
Ripple	<10%		<10%	
No Load Current	<10mA		<10mA	
Max. Load Current	200mA		200mA	
Leakage Current	<0.01mA		<0.01mA	
Voltage Drop	<1.5V		<1.5V	
Switching Frequency	2KHZ		2KHZ	
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℃ - +70 ℃		-25℃ - +70 ℃	
Temperature Drift	<10%(Sr)		<10%(Sr)	
Short Circuit Protection	YES		YES	
Overload Trip Point	220mA		220mA	
Material Active Face	Stainless steel		Stainless steel	
DC 3 wire 10-30V NPN N.O.	P1C1F0801NO3A2	1	P1C2F0802NO3A2	P1C1F0801NO3S2	1	P1C2F0802NO3S2
DC 3 wire 10-30V NPN N.C.	P1C1F0801NC3A2	2	P1C2F0802NC3A2	P1C1F0801NC3S2	2	P1C2F0802NC3S2
DC 3 wire 10-30V PNP N.O.	P1C1F0801PO3A2	3	P1C2F0802PO3A2	P1C1F0801PO3S2	3	P1C2F0802PO3S2
DC 3 wire 10-30V PNP N.C.	P1C1F0801PC3A2	4	P1C2F0802PC3A2	P1C1F0801PC3S2	4	P1C2F0802PC3S2
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)	3 3x0.15			3 3x0.15		
Weight	Approx.40 g			Approx.47 g		

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M8	
●	○
1mm	2mm
Stainless steel	
●	

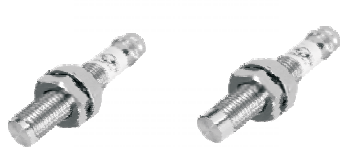
10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
YES
220mA
Stainless steel

P1C1F0801NOPA3	**25**	**P1C2F0802NOPA3**
P1C1F0801NCPA3	**25**	**P1C2F0802NCPA3**
P1C1F0801POPA3	**26**	**P1C2F0802POPA3**
P1C1F0801PCPA3	**26**	**P1C2F0802PCPA3**



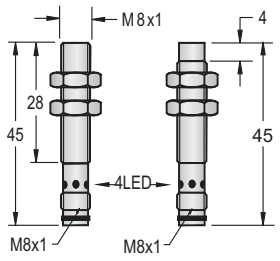
Approx.15 g

M8	
●	○
1 mm	2 mm
Stainless steel	
●	



10-30VDC
<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
Stainless steel

P1C1F0801NOPS3	**25**	**P1C2F0802NOPS3**
P1C1F0801NCPS3	**25**	**P1C2F0802NCPS3**
P1C1F0801POPS3	**26**	**P1C2F0802POPS3**
P1C1F0801PCPS3	**26**	**P1C2F0802PCPS3**

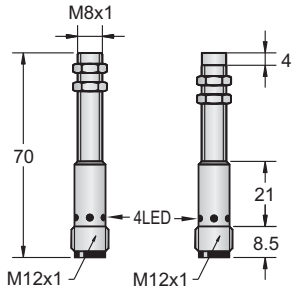


Approx.12 g

M8	
●	○
1mm	2mm
Stainless steel	
●	

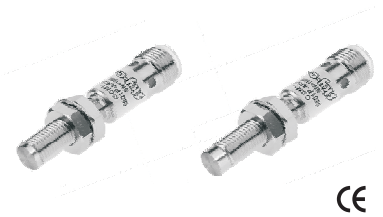
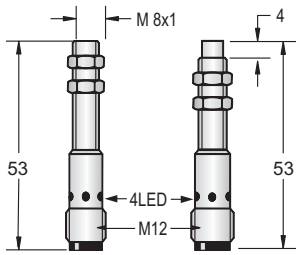
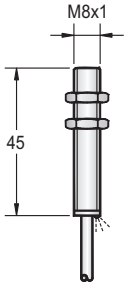
10-30VDC
<10%
<10mA
200mA
<0.01mA
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25 °C - +70 °C
<10%(Sr)
YES
220mA
Stainless steel

P1C1F0801NOEA4	**31**	**P1C2F0802NOEA4**
P1C1F0801NCEA4	**32**	**P1C2F0802NCEA4**
P1C1F0801POEA4	**33**	**P1C2F0802POEA4**
P1C1F0801PCEA4	**34**	**P1C2F0802PCEA4**



Approx.22 g

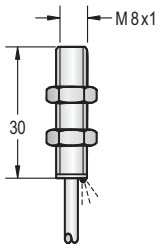
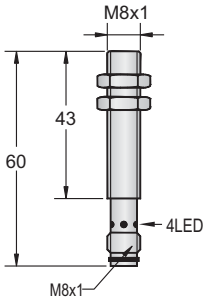
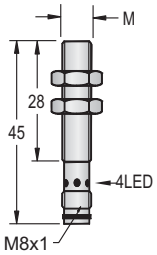
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

Diameter	M8		M8
● Shielded ○ Non-shielded	●	○	●
Switching Distance Sn: mm	1mm	2mm	2mm
Housing Material	Stainless steel		Stainless steel
● With LED ○ Without LED	●		●
Picture			
Operating Voltage	10-30VDC		10-30VDC
Ripple	<10%		<10%
No Load Current	<10mA		<10mA
Max. Load Current	200mA		200mA
Leakage Current	<0.01mA		<0.01mA
Voltage Drop	<1.5V		<2.0V
Switching Frequency	2KHZ		2KHZ
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	YES		YES
Overload Trip Point	220mA		220mA
Material Active Face	Stainless steel		Stainless steel
DC 3 wire 10-30V NPN N.O.	**P1C1F0801NOES4**	**31**	**P1C2F0802NOES4**	**P1C1F0802NO3A2**	**1**
DC 3 wire 10-30V NPN N.C.	**P1C1F0801NCES4**	**32**	**P1C2F0802NCES4**	**P1C1F0802NC3A2**	**2**
DC 3 wire 10-30V PNP N.O.	**P1C1F0801POES4**	**33**	**P1C2F0802POES4**	**P1C1F0802PO3A2**	**3**
DC 3 wire 10-30V PNP N.C.	**P1C1F0801PCES4**	**34**	**P1C2F0802PCES4**	**P1C1F0802PC3A2**	**4**
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)				3 ϕ 3x0.15	
Weight	Approx.17 g			Approx.40 g	

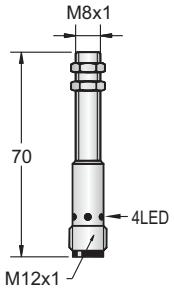
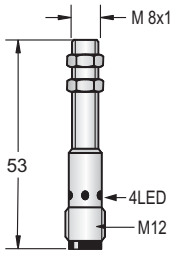
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M8	M8	M8
●	●	●
2mm	2mm	2 mm
Stainless steel	Stainless steel	Stainless steel
●	●	●
10-30VDC	10-30VDC	10-30VDC
<10%	<10%	<10%
<10mA	<10mA	<10mA
200mA	200mA	200mA
<0.01mA	<0.01mA	<0.01mA
<2.0V	<2.0V	<2.0V
2KHZ	2KHZ	2KHZ
0.1ms/0.1ms	0.1ms/0.1ms	0.1ms/0.1ms
<15%(Sr)	<15%(Sr)	<15%(Sr)
<1.0%(Sr)	<1.0%(Sr)	<1.0%(Sr)
IP67	IP67	IP67
-25℃ - +70℃	-25℃ - +70℃	-25℃ - +70℃
<10%(Sr)	<10%(Sr)	<10%(Sr)
YES	YES	YES
220mA	220mA	220mA
Stainless steel	Stainless steel	Stainless steel

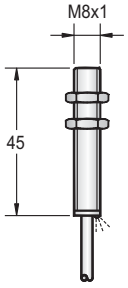
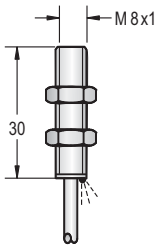
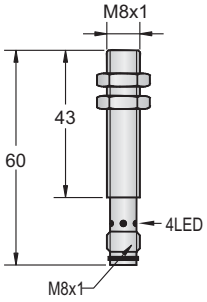
P1C1F0802NO3S2	**1**	**P1C1F0802NOPA3**	**25**	**P1C1F0802NOPS3**	**25**
P1C1F0802NC3S2	**2**	**P1C1F0802NCPA3**	**25**	**P1C1F0802NCPS3**	**25**
P1C1F0802PO3S2	**3**	**P1C1F0802POPA3**	**26**	**P1C1F0802POPS3**	**26**
P1C1F0802PC3S2	**4**	**P1C1F0802PCPA3**	**26**	**P1C1F0802PCPS3**	**26**

		
3 ϕ 3x0.15		
Approx.47 g	Approx.15 g	Approx.12 g

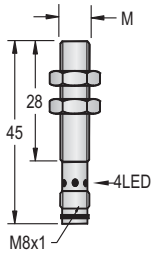
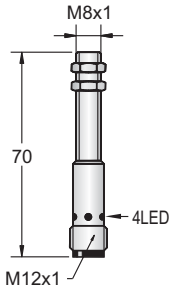
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

Diameter	M8	M8
● Shielded ○ Non-shielded	●	●
Switching Distance Sn: mm	2mm	2mm
Housing Material	Stainless steel	Stainless steel
● With LED ○ Without LED	●	●
Picture		
Operating Voltage	10-30VDC	10-30VDC
Ripple	<10%	<10%
No Load Current	<10mA	<10mA
Max. Load Current	200mA	200mA
Leakage Current	<0.01mA	<0.01mA
Voltage Drop	<2.0V	<2.0V
Switching Frequency	2KHZ	2KHZ
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	YES	YES
Overload Trip Point	220mA	220mA
Material Active Face	Stainless steel	Stainless steel
DC 3 wire 10-30V NPN N.O.	**P1C1F0802NOEA4** 31	**P1C1F0802NOES4** 31
DC 3 wire 10-30V NPN N.C.	**P1C1F0802NCEA4** 32	**P1C1F0802NCES4** 32
DC 3 wire 10-30V PNP N.O.	**P1C1F0802POEA4** 33	**P1C1F0802POES4** 33
DC 3 wire 10-30V PNP N.C.	**P1C1F0802PCEA4** 34	**P1C1F0802PCES4** 34
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.22 g	Approx.17 g

DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M8	M8	M8
●	●	●
3mm	3mm	3mm
Stainless steel	Stainless steel	Stainless steel
●	●	●
10-30VDC	10-30VDC	10-30VDC
<10%	<10%	<10%
<10mA	<10mA	<10mA
200mA	200mA	200mA
<0.01mA	<0.01mA	<0.01mA
<2.0V	<2.0V	<2.0V
1KHZ	1KHZ	1KHZ
0.2ms/0.2ms	0.2ms/0.2ms	0.2ms/0.2ms
<15%(Sr)	<15%(Sr)	<15%(Sr)
<1.0%(Sr)	<1.0%(Sr)	<1.0%(Sr)
IP67	IP67	IP67
-25℃ - +70 ℃	-25℃ - +70 ℃	-25℃ - +70 ℃
<10%(Sr)	<10%(Sr)	<10%(Sr)
YES	YES	YES
220mA	220mA	220mA
Stainless steel	Stainless steel	Stainless steel
P1C1F0803NO3A2 1	**P1C1F0803NO3S2** 1	**P1C1F0803NOPA3** 25
P1C1F0803NC3A2 2	**P1C1F0803NC3S2** 2	**P1C1F0803NCPA3** 25
P1C1F0803PO3A2 3	**P1C1F0803PO3S2** 3	**P1C1F0803POPA3** 26
P1C1F0803PC3A2 4	**P1C1F0803PC3S2** 4	**P1C1F0803PCPA3** 26
		
3 ϕ 3x0.15	3 ϕ 3x0.15	
Approx.40 g	Approx.47 g	Approx.15 g

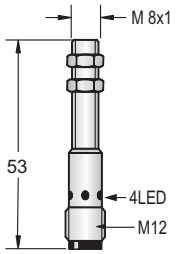
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

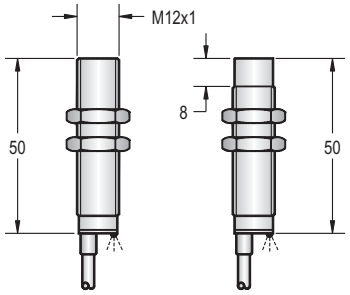
Diameter	M8	M8
● Shielded ○ Non-shielded	●	●
Switching Distance Sn: mm	3mm	3mm
Housing Material	Stainless steel	Stainless steel
● With LED ○ Without LED	●	●
Picture		
Operating Voltage	10-30VDC	10-30VDC
Ripple	<10%	<10%
No Load Current	<10mA	<10mA
Max. Load Current	200mA	200mA
Leakage Current	<0.01mA	<0.01mA
Voltage Drop	<2.0V	<2.0V
Switching Frequency	1KHZ	1KHZ
Response Time	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	YES	YES
Overload Trip Point	220mA	220mA
Material Active Face	Stainless steel	Stainless steel
DC 3 wire 10-30V NPN N.O.	**P1C1F0803NOPS3** 25	**P1C1F0803NOEA4** 31
DC 3 wire 10-30V NPN N.C.	**P1C1F0803NCPS3** 25	**P1C1F0803NCEA4** 32
DC 3 wire 10-30V PNP N.O.	**P1C1F0803POPS3** 26	**P1C1F0803POEA4** 33
DC 3 wire 10-30V PNP N.C.	**P1C1F0803PCPS3** 26	**P1C1F0803PCEA4** 34
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	Approx.12 g	Approx.22 g

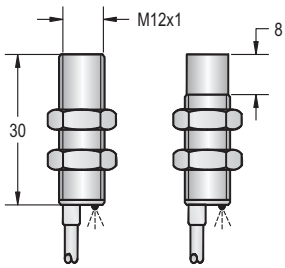
DC METAL FACE INDUCTIVE PROXIMITY SENSORS

M8	M12		M12	
●	●	○	●	○
3mm	2 mm	4 mm	2 mm	4 mm
Stainless steel	Stainless steel		Stainless steel	
●	●		●	

M8		M12			M12		
10-30VDC		10-30VDC//10-55VDC/10-60VDC			10-30VDC/10-60VDC		
<10%		<10%			<10%		
<10mA		<10mA			<10mA		
200mA		200mA			200mA		
<0.01mA		<0.01mA			<0.01mA		
<2.0V		<1.5V			<1.5V		
1KHZ		2KHZ	1KHZ		2KHZ	1KHZ	
0.2ms/0.2ms		0.1ms/0.1ms	0.2ms/0.2ms		0.1ms/0.1ms	0.2ms/0.2ms	
<15%(Sr)		<15%(Sr)			<15%(Sr)		
<1.0%(Sr)		<1.0%(Sr)			<1.0%(Sr)		
IP67		IP67			IP67		
-25 °C - +70 °C		-25°C− +70℃			-25°C− +70℃		
<10%(Sr)		<10%(Sr)			<10%(Sr)		
YES		YES			YES		
220mA		220mA			220mA		
Stainless steel		Stainless steel			Stainless steel		
P1C1F0803NOES4	**31**	**P1C1F1202NO3A2**	**1**	**P1C2F1204NO3A2**	**P1C1F1202NO3S2**	**1**	**P1C2F1204NO3S2**
P1C1F0803NCES4	**32**	**P1C1F1202NC3A2**	**2**	**P1C2F1204NC3A2**	**P1C1F1202NC3S2**	**2**	**P1C2F1204NC3S2**
P1C1F0803POES4	**33**	**P1C1F1202PO3A2**	**3**	**P1C2F1204PO3A2**	**P1C1F1202PO3S2**	**3**	**P1C2F1204PO3S2**
P1C1F0803PCES4	**34**	**P1C1F1202PC3A2**	**4**	**P1C2F1204PC3A2**	**P1C1F1202PC3S2**	**4**	**P1C2F1204PC3S2**
		P4C1F1202CO2A2	**7**	**P4C2F1204CO2A2**	**P4C1F1202CO2S2**	**7**	**P4C2F1204CO2S2**
		P4C1F1202CC2A2	**8**	**P4C2F1204CC2A2**	**P4C1F1202CC2S2**	**8**	**P4C2F1204CC2S2**
		P3C1F1202NO3A2	**1**	**P3C2F1204NO3A2**			
		P3C1F1202NC3A2	**2**	**P3C2F1204NC3A2**			
		P3C1F1202PO3A2	**3**	**P3C2F1204PO3A2**			
		P3C1F1202PC3A2	**4**	**P3C2F1204PC3A2**			







M8	M12		M12	
	4⌀ 3x0.15 or 4⌀ 4x0.15		4⌀ 3x0.15	
Approx.17 g	approx.67 g	approx.65 g	Approx.62 g	Approx.60 g