

PART F-01 ~ F-17

Diameter

● Shielded ○ non-Shielded

Switching Distance Sn mm

Housing Material

● With LED ○ Without LED

Dimensions (unit: mm)

Operating Voltage

Ripple

No Load Current

Max. Load Current

Leakge Current

Surge Current

Min. Load Current

Voltage Drop

Switching Frequency

Response Time

Switching Hysteresis

Repeat Accuracy

Protection Category

Operating Temperature

Temperature Drift

Short Circuit Protection

Overload Trip Point

Time Delay Before Availability

EMC

Shock / Vibration

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. or NAMUR

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 2 wire 20-250V N.O.

AC 2 wire 20-250V N.C.

AC 2 wire 20-250V N.O. or N.C. Changeable

AC/DC 2 wire 20-250V N.O.

AC/DC 2 wire 20-250V N.C.

AC/DC 2 wire 20-250V N.O. or N.C. Changeable

Remark

Cable 2M (PVC)

Weight

Please put each catalog page in the blank. The specification on the left will help your reading.

DC STANDARD BODY WITH EXTENDED SENSING DISTANCE PROXIMITY SWITCH

ø 6.5	
●	○
2 mm	4 mm
stainless steel	
●	

10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
-	
<1.5V	
2KHZ	1KHZ
0.1ms/0.1ms	0.2ms/0.2ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
POM	

[illegible]

DC 2 wire type see page 17

3 ϕ 3x0.15
Approx.36 g

ø 8	
●	○
2 mm	4 mm
stainless steel	
●	

10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
-	
<1.5V	
2KHZ	1KHZ
0.1ms/0.1ms	0.2ms/0.2ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
POM	

[illegible]

3 ϕ 3x0.15
Approx.38 g

M8	
	
2 mm	4 mm
stainless steel	
	

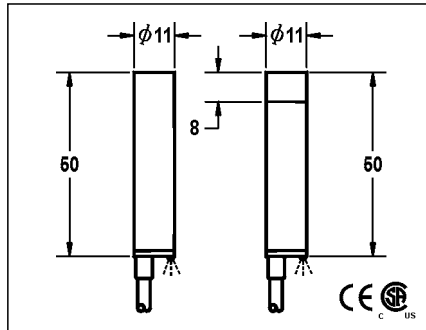
10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
-	
<1.5V	
2KHZ	1KHZ
0.1ms/0.1ms	0.2ms/0.2ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
POM	

[illegible]

3 ϕ 3x0.15
Approx.40 g

DC STANDARD BODY WITH EXTENDED SENSING DISTANCE PROXIMITY SWITCH

φ11	
	
4 mm	8 mm
nickel plated brass	
	



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

<1.5V	
2KHZ	1KHZ
0.1ms/0.1ms	0.2ms/0.2ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	

RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2

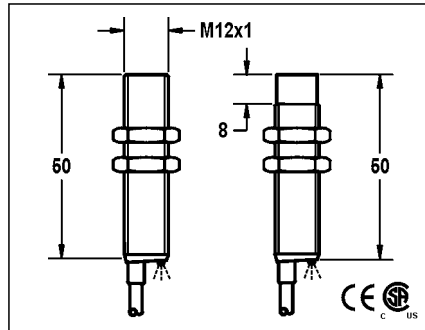
POM

ECM1-D1104N-A3U2	1	ECM2-D1108N-A3U2
ECM1-D1104N-B3U2	2	ECM2-D1108N-B3U2
ECM1-D1104P-A3U2	3	ECM2-D1108P-A3U2
ECM1-D1104P-B3U2	4	ECM2-D1108P-B3U2
ECM1-D1104P-S4U2	6	ECM2-D1108P-S4U2
ECM1-D1104N-S4U2	5	ECM2-D1108N-S4U2
ECM1-D1104C-A2U2	7	ECM2-D1108C-A2U2
ECM1-D1104C-B2U2	8	ECM2-D1108C-B2U2

DC 2 wire type see page 17

4 φ3x0.34
Approx.55 g

M12	
	
4 mm	8mm
nickel plated brass	
	



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

<1.5V	
2KHZ	1KHZ
0.1ms/0.1ms	0.2ms/0.2ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	

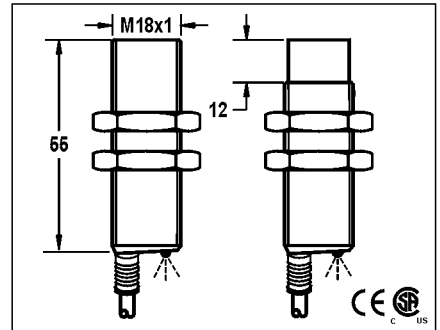
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2

POM

ECM1-1204N-A3U2	1	ECM2-1208N-A3U2
ECM1-1204N-B3U2	2	ECM2-1208N-B3U2
ECM1-1204P-A3U2	3	ECM2-1208P-A3U2
ECM1-1204P-B3U2	4	ECM2-1208P-B3U2
ECM1-1204P-S4U2	6	ECM2-1208P-S4U2
ECM1-1204N-S4U2	5	ECM2-1208N-S4U2
ECM1-1204C-A2U2	7	ECM2-1208C-A2U2
ECM1-1204C-B2U2	8	ECM2-1208C-B2U2

4φ 3x0.34	
Approx.67 g	Approx.67 g

M18	
	
8 mm	16 mm
nickel plated brass	
	



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

<1.5V	
500HZ	150HZ
0.5ms/0.5ms	1ms/1ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	

RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2

PBT

ECM1-1808N-A3U2	1	ECM2-1816N-A3U2
ECM1-1808N-B3U2	2	ECM2-1816N-B3U2
ECM1-1808P-A3U2	3	ECM2-1816P-A3U2
ECM1-1808P-B3U2	4	ECM2-1816P-B3U2
ECM1-1808P-S4U2	6	ECM2-1816P-S4U2
ECM1-1808N-S4U2	5	ECM2-1816N-S4U2
ECM1-1808C-A2U2	7	ECM2-1816C-A2U2
ECM1-1808C-B2U2	8	ECM2-1816C-B2U2

DC 2 wire type see page 17

5.0φ44x0.1	
Approx.153 g	Approx.144 g

[illegible][illegible]
