

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.

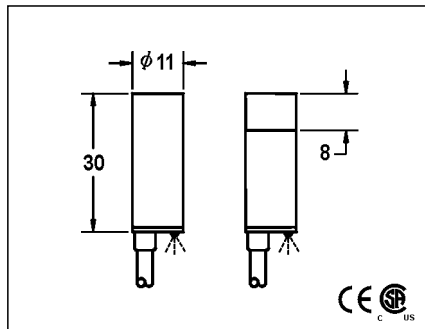
$\phi 6.5$ 、 $\phi 8$ 、 M8

DC SHORT BODY WITH EXTENDED SENSING DISTANCE PROXIMITY SWITCH

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DC SHORT BODY WITH EXTENDED SENSING DISTANCE PROXIMITY SWITCH

ø11	
●	○
4 mm	8 mm
nickel plated brass	
●	



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

<1.5V	
1KHZ	500HZ
0.2ms/0.2ms	0.5ms/0.5ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	

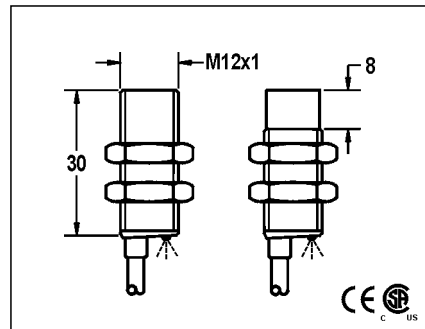
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2

POM		
ECM1-D1104N-A3S2	1	ECM2-D1108N-A3S2
ECM1-D1104N-B3S2	2	ECM2-D1108N-B3S2
ECM1-D1104P-A3S2	3	ECM2-D1108P-A3S2
ECM1-D1104P-B3S2	4	ECM2-D1108P-B3S2
ECM1-D1104P-S4S2	6	ECM2-D1108P-S4S2
ECM1-D1104N-S4S2	5	ECM2-D1108N-S4S2
ECM1-D1104C-A2S2	7	ECM2-D1108C-A2S2
ECM1-D1104C-B2S2	8	ECM2-D1108C-B2S2

DC 2 wire type see page 17

4 ϕ 3x0.34
Approx.58 g

M12	
	
4 mm	8 mm
nickel plated brass	
	



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

<1.5V	
1KHZ	500HZ
0.2ms/0.2ms	0.5ms/0.5ms
<15%	
<1.0%(Sr)	
IP67	
-25 °C - +70 °C	
<10%(Sr)	
YES	
220mA	
<10ms	

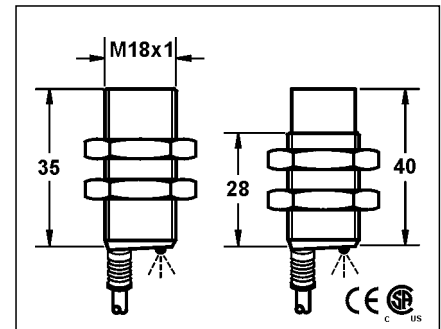
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2

POM		PBT
ECM1-1204N-A3S2	1	ECM2-1208N-A3S2
ECM1-1204N-B3S2	2	ECM2-1208N-B3S2
ECM1-1204P-A3S2	3	ECM2-1208P-A3S2
ECM1-1204P-B3S2	4	ECM2-1208P-B3S2
ECM1-1204P-S4S2	6	ECM2-1208P-S4S2
ECM1-1204N-S4S2	5	ECM2-1208N-S4S2
ECM1-1204C-A2S2	7	ECM2-1208C-A2S2
ECM1-1204C-B2S2	8	ECM2-1208C-B2S2

4 ϕ 3x0.34
Approx.62 g

4 ϕ 3x0.34
Approx.62 g

M18	
	
8 mm	16 mm
nickel plated brass	
	



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

<1.5V	
500HZ	500HZ
0.5ms/0.5ms	0.5ms/0.5ms
<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-A3S2	1	ECM2-1816N-A3S2
ECM1-1808N-B3S2	2	ECM2-1816N-B3S2
ECM1-1808P-A3S2	3	ECM2-1816P-A3S2
ECM1-1808P-B3S2	4	ECM2-1816P-B3S2
ECM1-1808P-S4S2	6	ECM2-1816P-S4S2
ECM1-1808N-S4S2	5	ECM2-1816N-S4S2
ECM1-1808C-A2S2	7	ECM2-1816C-A2S2
ECM1-1808C-B2S2	8	ECM2-1816C-B2S2

DC 2 wire type see page 17

5.0 $\phi 44 \times 0.1$
Approx. 132 g

4 ϕ 3x0.34
Approx.180 g

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