

PART B-01 ~ B-13

SIDE SENSING DC INDUCTIVE PROXIMITY SWITCH

Diameter	
● Shielded ○ non-Shielded	
Switching Distance Sn mm	
Housing Material	
● With LED ○ Without LED	
Dimensions (unit: mm)	
Operating Voltage	
Ripple	<10%
No Load Current	<10mA
Max. Load Current	200mA
Leakge Current	<0.01mA
Surge Current	-
Min. Load Current	-
Voltage Drop	<1.5V
Switching Frequency	2KHZ
Response Time	0.1ms/0.1ms
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
Time Delay Before Availability	<10ms
EMC	RFI>3V/m / EFT>1KV / ESD>4KV (contact)
Shock / Vibration	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
Material Active Face	
POM	
DC 3 wire 10-30V NPN N.O.	FCU1-D040.8N-A3U2T 1
DC 3 wire 10-30V NPN N.C.	FCU1-D040.8N-B3U2T 2
DC 3 wire 10-30V PNP N.O.	FCU1-D040.8P-A3U2T 3
DC 3 wire 10-30V PNP N.C.	FCU1-D040.8P-B3U2T 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. 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.	
DC 3 wire 5-36V NPN N.O.	ICU1-D040.8N-A3U2T 1
DC 3 wire 5-36V NPN N.C.	ICU1-D040.8N-B3U2T 2
DC 3 wire 5-36V PNP N.O.	ICU1-D040.8P-A3U2T 3
DC 3 wire 5-36V PNP N.C.	ICU1-D040.8P-B3U2T 4
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)	
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)	
Remark	
NAMUR type specifications see page 23.	
Cable 2M (PVC)	2.7 φ3x0.15
Weight	approx.25 g

φ4	
●	
0.8 mm	
stainless steel	
●	
10-30VDC or 5-36V	
<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	
<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	
FCU1-D040.8N-A3U2T	1
FCU1-D040.8N-B3U2T	2
FCU1-D040.8P-A3U2T	3
FCU1-D040.8P-B3U2T	4
ICU1-D040.8N-A3U2T	1
ICU1-D040.8N-B3U2T	2
ICU1-D040.8P-A3U2T	3
ICU1-D040.8P-B3U2T	4
Remark	
NAMUR type specifications see page 23.	
2.7 φ3x0.15	
approx.25 g	

φ4			
●			
0.8 mm			
stainless steel			
●			
10-30VDC or 5-36V			
<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			
<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			
FCU1-D040.8N-A3U0.2T/P5	25	FCU1-D040.8N-A3U0.2T/P8	29
FCU1-D040.8N-B3U0.2T/P5	26	FCU1-D040.8N-B3U0.2T/P8	30
FCU1-D040.8P-A3U0.2T/P5	27	FCU1-D040.8P-A3U0.2T/P8	31
FCU1-D040.8P-B3U0.2T/P5	28	FCU1-D040.8P-B3U0.2T/P8	32
ICU1-D040.8N-A3U0.2T/P5	25	ICU1-D040.8N-A3U0.2T/P8	29
ICU1-D040.8N-B3U0.2T/P5	26	ICU1-D040.8N-B3U0.2T/P8	30
ICU1-D040.8P-A3U0.2T/P5	27	ICU1-D040.8P-A3U0.2T/P8	31
ICU1-D040.8P-B3U0.2T/P5	28	ICU1-D040.8P-B3U0.2T/P8	32
Remark			
FCU***/P5 └ M5 Pigtail mode			
FCU***/P8 └ M8 Pigtail mode			
2.7 φ3x0.15			
approx.25 g	Approx.26 g		

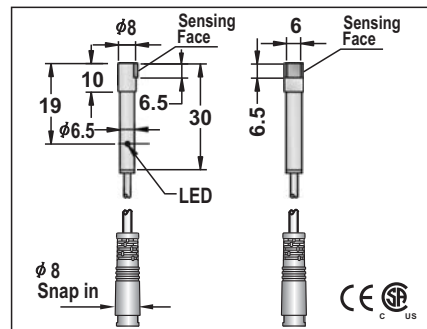
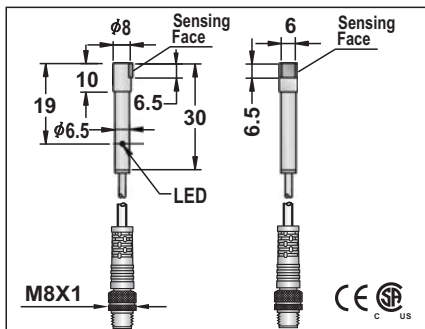
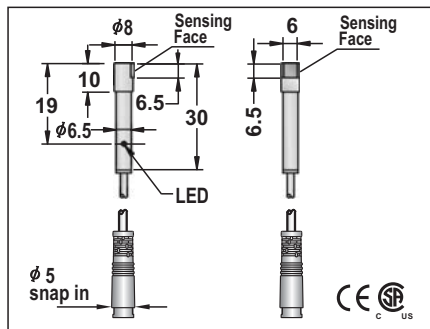
φ4			
●			
0.8 mm			
stainless steel			
●			
10-30VDC or 5-36V			
<10%			
<10mA			
200mA			
<0.01mA			
-			
-			
<1.5V			
2KHZ			
0.1ms/0.1ms			
<15%(Sr)			
<1.0%(Sr)			
IP67			
-25°C - +70°C			
<10%(Sr)			
YES			
220mA			
<10ms			
RFI>3V/m / EFT>1KV / ESD>4KV (contact)			
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2			
POM			
FCU1-D040.8N-A3U0.2T/SN5	25	FCU1-D040.8N-A3U0.2T/SN8	29
FCU1-D040.8N-B3U0.2T/SN5	26	FCU1-D040.8N-B3U0.2T/SN8	30
FCU1-D040.8P-A3U0.2T/SN5	27	FCU1-D040.8P-A3U0.2T/SN8	31
FCU1-D040.8P-B3U0.2T/SN5	28	FCU1-D040.8P-B3U0.2T/SN8	32
ICU1-D040.8N-A3U0.2T/SN5	25	ICU1-D040.8N-A3U0.2T/SN8	29
ICU1-D040.8N-B3U0.2T/SN5	26	ICU1-D040.8N-B3U0.2T/SN8	30
ICU1-D040.8P-A3U0.2T/SN5	27	ICU1-D040.8P-A3U0.2T/SN8	31
ICU1-D040.8P-B3U0.2T/SN5	28	ICU1-D040.8P-B3U0.2T/SN8	32
Remark			
FCU***/SN5 └ φ 5 Pigtail mode			
FCU***/SN8 └ φ 8 Pigtail mode			
2.7 φ3x0.15			
approx.25 g	Approx.26 g		

SIDE SENSING DC INDUCTIVE PROXIMITY SWITCH

φ 6.5	
●	●
1.0mm	1.5mm
stainless steel	
●	

φ 6.5	
●	●
1.0mm	1.5mm
stainless steel	
●	

φ 6.5	
●	●
1.0mm	1.5mm
stainless steel	
●	



10-30VDC or 5-36VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
<1.5V(10-30V) or <1.0V(5-36V)	
2KHZ	
0.1ms/0.1ms	
<15%(Sr)	
<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	

10-30VDC or 5-36VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
<1.5V(10-30V) or <1.0V(5-36V)	
2KHZ	
0.1ms/0.1ms	
<15%(Sr)	
<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	

10-30VDC or 5-36VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
<1.5V(10-30V) or <1.0V(5-36V)	
2KHZ	
0.1ms/0.1ms	
<15%(Sr)	
<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	

FCU1-D0601N-A3U0.2T/SN5	25	
FCU1-D0601N-B3U0.2T/SN5	26	
FCU1-D0601P-A3U0.2T/SN5	27	
FCU1-D0601P-B3U0.2T/SN5	28	
	25	ICU1-D061.5N-A3U0.2T/SN5
	26	ICU1-D061.5N-B3U0.2T/SN5
	27	ICU1-D061.5P-A3U0.2T/SN5
	28	ICU1-D061.5P-B3U0.2T/SN5

FCU1-D0601N-A3U0.2T/P8	29	
FCU1-D0601N-B3U0.2T/P8	30	
FCU1-D0601P-A3U0.2T/P8	31	
FCU1-D0601P-B3U0.2T/P8	32	
	29	ICU1-D061.5N-A3U0.2T/P8
	30	ICU1-D061.5N-B3U0.2T/P8
	31	ICU1-D061.5P-A3U0.2T/P8
	32	ICU1-D061.5P-B3U0.2T/P8

FCU1-D0601N-A3U0.2T/SN8	29	
FCU1-D0601N-B3U0.2T/SN8	30	
FCU1-D0601P-A3U0.2T/SN8	31	
FCU1-D0601P-B3U0.2T/SN8	32	
	29	ICU1-D061.5N-A3U0.2T/SN8
	30	ICU1-D061.5N-B3U0.2T/SN8
	31	ICU1-D061.5P-A3U0.2T/SN8
	32	ICU1-D061.5P-B3U0.2T/SN8

5-36V: ICU*-***** type switching distance Sn=1.5mm.

5-36V: ICU*-***** type switching distance Sn=1.5mm.

5-36V: ICU*-***** type switching distance Sn=1.5mm.

3 φ 3x0.15	
Approx.38 g	Approx.39 g

3 φ 3x0.15	
Approx.38 g	Approx.39 g

3 φ 3x0.15	
Approx.38 g	Approx.39 g

