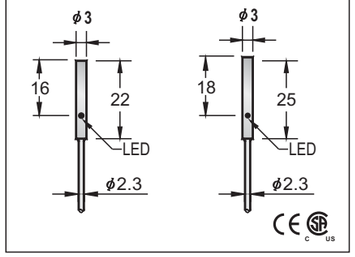
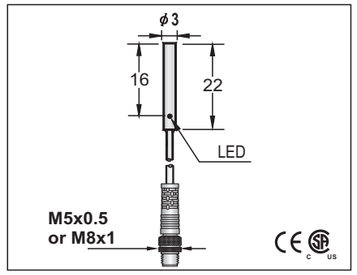
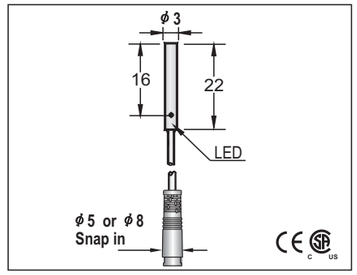
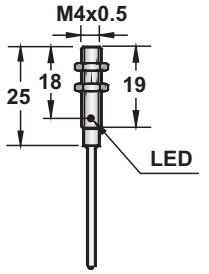
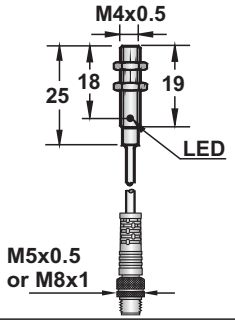
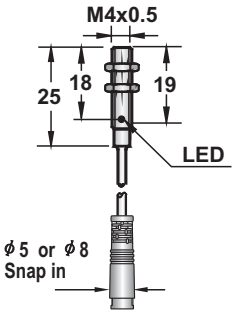
PART A-01 ~ A-37

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

Diameter	ϕ3	ϕ3	ϕ3	ϕ3
● Shielded ○ non-Shielded	●		●	●
Switching Distance Sn mm	0.8 mm		0.8 mm	0.8 mm
Housing Material	stainless steel		stainless steel	stainless steel
● With LED ○ Without LED	●		●	●
Dimensions (unit: mm)				
Operating Voltage	10-30VDC or 5-36VDC		10-30VDC or 5-36VDC	10-30VDC or 5-36VDC
Ripple	<10%		<10%	<10%
No Load Current	<10mA		<10mA	<10mA
Max. Load Current	200mA		200mA	200mA
Leakge Current	<0.01mA		<0.01mA	<0.01mA
Surge Current	-		-	-
Min. Load Current	-		-	-
Voltage Drop	<1.5V		<1.5V	<1.5V
Switching Frequency	2KHZ		2KHZ	2KHZ
Response Time	0.1ms/0.1ms		0.1ms/0.1ms	0.1ms/0.1ms
Switching Hysteresis	<15%(Sr)		<15%(Sr)	<15%(Sr)
Repeat Accuracy	<1.0%(Sr)		<1.0%(Sr)	<1.0%(Sr)
Protection Category	IP67		IP67	IP67
Operating Temperature	-25°C - +70°C		-25°C - +70°C	-25°C - +70°C
Temperature Drift	<10%(Sr)		<10%(Sr)	<10%(Sr)
Short Circuit Protection	YES		YES	YES
Overload Trip Point	220mA		220mA	220mA
Time Delay Before Availability	<10ms		<10ms	<10ms
EMC	RFI>3V/m / EFT>1KV / ESD>4KV (contact)		RFI>3V/m / EFT>1KV / ESD>4KV (contact)	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		IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
Material Active Face	POM		POM	POM
DC 3 wire 10-30V NPN N.O.	FCU1-D030.8N-A3S2	1 FCU1-D030.8N-A3U2	FCU1-D030.8N-A3S0.2/P5 25 FCU1-D030.8N-A3S0.2/P8 29	FCU1-D030.8N-A3S0.2/SN5 25 FCU1-D030.8N-A3S0.2/SN8 29
DC 3 wire 10-30V NPN N.C.	FCU1-D030.8N-B3S2	2 FCU1-D030.8N-B3U2	FCU1-D030.8N-B3S0.2/P5 26 FCU1-D030.8N-B3S0.2/P8 30	FCU1-D030.8N-B3S0.2/SN5 26 FCU1-D030.8N-B3S0.2/SN8 30
DC 3 wire 10-30V PNP N.O.	FCU1-D030.8P-A3S2	3 FCU1-D030.8P-A3U2	FCU1-D030.8P-A3S0.2/P5 27 FCU1-D030.8P-A3S0.2/P8 31	FCU1-D030.8P-A3S0.2/SN5 27 FCU1-D030.8P-A3S0.2/SN8 31
DC 3 wire 10-30V PNP N.C.	FCU1-D030.8P-B3S2	4 FCU1-D030.8P-B3U2	FCU1-D030.8P-B3S0.2/P5 28 FCU1-D030.8P-B3S0.2/P8 32	FCU1-D030.8P-B3S0.2/SN5 28 FCU1-D030.8P-B3S0.2/SN8 32
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-D030.8N-A3S2	1 ICU1-D030.8N-A3U2	ICU1-D030.8N-A3S0.2/P5 25 ICU1-D030.8N-A3S0.2/P8 29	ICU1-D030.8N-A3S0.2/SN5 25 ICU1-D030.8N-A3S0.2/SN8 29
DC 3 wire 5-36V NPN N.C.	ICU1-D030.8N-B3S2	2 ICU1-D030.8N-B3U2	ICU1-D030.8N-B3S0.2/P5 26 ICU1-D030.8N-B3S0.2/P8 30	ICU1-D030.8N-B3S0.2/SN5 26 ICU1-D030.8N-B3S0.2/SN8 30
DC 3 wire 5-36V PNP N.O.	ICU1-D030.8P-A3S2	3 ICU1-D030.8P-A3U2	ICU1-D030.8P-A3S0.2/P5 27 ICU1-D030.8P-A3S0.2/P8 31	ICU1-D030.8P-A3S0.2/SN5 27 ICU1-D030.8P-A3S0.2/SN8 31
DC 3 wire 5-36V PNP N.C.	ICU1-D030.8P-B3S2	4 ICU1-D030.8P-B3U2	ICU1-D030.8P-B3S0.2/P5 28 ICU1-D030.8P-B3S0.2/P8 32	ICU1-D030.8P-B3S0.2/SN5 28 ICU1-D030.8P-B3S0.2/SN8 32
DC 4 wire 5-36V Changeover PNP (N.O & N.C.)				
DC 4 wire 5-36V Changeover NPN (N.O & N.C.)				
Remark	Wiring diagram number see page 05-13 The following page is the same.		FCU***/P5 — M5 Pigtail mode FCU***/P8 — M8 Pigtail mode	1、NAMUR type specifications see page 23 2、FCU***/SN5 — ϕ5 Pigtail mode FCU***/SN8 — ϕ8 Pigtail mode
Cable 2M (PVC)	2.3ϕ 3x0.15		2.3ϕ 3x0.15	2.3ϕ 3x0.15
Weight	approx.25 g		approx.25 g / Approx.26 g	approx.25 g / Approx.26 g

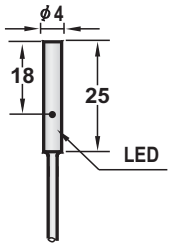
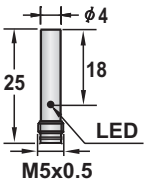
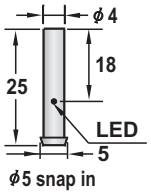
DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

M4	M4	M4
●	●	●
0.8 mm / 1.0 mm	0.8 mm	0.8 mm
stainless steel	stainless steel	stainless steel
●	●	●
		
10-30VDC or 5-36VDC	10-30VDC or 5-36VDC	10-30VDC or 5-36VDC
<10%	<10%	<10%
<10mA	<10mA	<10mA
200mA	200mA	200mA
<0.01mA	<0.01mA	<0.01mA
-	-	-
-	-	-
<1.5V	<1.5V	<1.5V
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°C - +70°C	-25°C - +70°C	-25°C - +70°C
<10%(Sr)	<10%(Sr)	<10%(Sr)
YES	YES	YES
220mA	220mA	220mA
<10ms	<10ms	<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM	POM	POM

FCU1-040.8N-A3U2	1	LCU1-0401N-A3U2	FCU1-040.8N-A3U0.2/P5	25	FCU1-040.8N-A3U0.2/P8	29	FCU1-040.8N-A3U0.2/SN5	25	FCU1-040.8N-A3U0.2/SN8	29
FCU1-040.8N-B3U2	2	LCU1-0401N-B3U2	FCU1-040.8N-B3U0.2/P5	26	FCU1-040.8N-B3U0.2/P8	30	FCU1-040.8N-B3U0.2/SN5	26	FCU1-040.8N-B3U0.2/SN8	30
FCU1-040.8P-A3U2	3	LCU1-0401P-A3U2	FCU1-040.8P-A3U0.2/P5	27	FCU1-040.8P-A3U0.2/P8	31	FCU1-040.8P-A3U0.2/SN5	27	FCU1-040.8P-A3U0.2/SN8	31
FCU1-040.8P-B3U2	4	LCU1-0401P-B3U2	FCU1-040.8P-B3U0.2/P5	28	FCU1-040.8P-B3U0.2/P8	32	FCU1-040.8P-B3U0.2/SN5	28	FCU1-040.8P-B3U0.2/SN8	32
ICU1-040.8N-A3U2	1	ICU1-0401N-A3U2	ICU1-040.8N-A3U0.2/P5	25	ICU1-040.8N-A3U0.2/P8	29	ICU1-040.8N-A3U0.2/SN5	25	ICU1-040.8N-A3U0.2/SN8	29
ICU1-040.8N-B3U2	2	ICU1-0401N-B3U2	ICU1-040.8N-B3U0.2/P5	26	ICU1-040.8N-B3U0.2/P8	30	ICU1-040.8N-B3U0.2/SN5	26	ICU1-040.8N-B3U0.2/SN8	30
ICU1-040.8P-A3U2	3	ICU1-0401P-A3U2	ICU1-040.8P-A3U0.2/P5	27	ICU1-040.8P-A3U0.2/P8	31	ICU1-040.8P-A3U0.2/SN5	27	ICU1-040.8P-A3U0.2/SN8	31
ICU1-040.8P-B3U2	4	ICU1-0401P-B3U2	ICU1-040.8P-B3U0.2/P5	28	ICU1-040.8P-B3U0.2/P8	32	ICU1-040.8P-B3U0.2/SN5	28	ICU1-040.8P-B3U0.2/SN8	32

NAMUR type specifications see page 23	FCU***/P5 └─ M5 Pigtail mode FCU***/P8 └─ M8 Pigtail mode	FCU***/SN5 └─ ϕ5 Pigtail mode FCU***/SN8 └─ ϕ8 Pigtail mode
2.3ϕ 3x0.15	2.3ϕ 3x0.15	2.3ϕ3x0.15
Approx.22 g	Approx.30 g / Approx.31 g	Approx.30 g / Approx.31 g

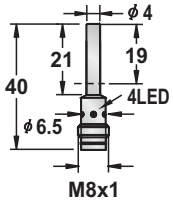
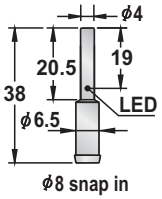
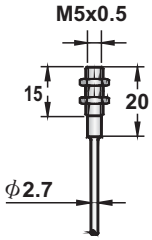
DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

ϕ4	ϕ4	ϕ4
●	●	●
0.8 mm / 1.0 mm	0.8 mm / 1.0 mm	0.8 mm / 1.0 mm
stainless steel	stainless steel	stainless steel
●	●	●
		
10-30VDC or 5-36VDC	10-30VDC or 5-36VDC	10-30VDC or 5-36VDC
<10%	<10%	<10%
<10mA	<10mA	<10mA
200mA	200mA	200mA
<0.01mA	<0.01mA	<0.01mA
-	-	-
-	-	-
<1.5V	<1.5V	<1.5V
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°C - +70°C	-25°C - +70°C	-25°C - +70°C
<10%(Sr)	<10%(Sr)	<10%(Sr)
YES	YES	YES
220mA	220mA	220mA
<10ms	<10ms	<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM	POM	POM

FCU1-D040.8N-A3U2	1	FCU1-D0401N-A3U2
FCU1-D040.8N-B3U2	2	FCU1-D0401N-B3U2
FCU1-D040.8P-A3U2	3	FCU1-D0401P-A3U2
FCU1-D040.8P-B3U2	4	FCU1-D0401P-B3U2
ICU1-D040.8N-A3U2	1	ICU1-D0401N-A3U2
ICU1-D040.8N-B3U2	2	ICU1-D0401N-B3U2
ICU1-D040.8P-A3U2	3	ICU1-D0401P-A3U2
ICU1-D040.8P-B3U2	4	ICU1-D0401P-B3U2

NAMUR type specifications see page 22		ϕ5 Miniature snap in connector
		2.7ϕ3x0.15
Approx.22 g	Approx.18 g	Approx.18 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

ϕ4	ϕ4	M 5
●	●	●
0.8 mm / 1.0 mm	0.8 mm	0.8 mm / 1.0 mm
stainless steel	stainless steel	stainless steel
●	●	●
		
10-30VDC	10-30VDC	6-12VDC
<10%	<10%	<10%
<10mA	<10mA	>2.2mA(OFF)
200mA	200mA	-
<0.01mA	<0.01mA	-
-	-	-
-	-	-
<1.5V	<1.5V	-
2KHZ	2KHZ	0.5KHZ
0.1ms/0.1ms	0.1ms/0.1ms	0.2ms/0.2ms
<15%(Sr)	<15%(Sr)	<15%(Sr)
<1.0%(Sr)	<1.0%(Sr)	-
IP67	IP67	IP67
-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
<10%(Sr)	<10%(Sr)	<1%(Sr)
YES	YES	-
220mA	220mA	-
<10ms	<10ms	<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM	POM	POM

FCU1-D040.8N-ACU3	29	FCU1-D0401N-ACU3
FCU1-D040.8N-BCU3	29	FCU1-D0401N-BCU3
FCU1-D040.8P-ACU3	30	FCU1-D0401P-ACU3
FCU1-D040.8P-BCU3	30	FCU1-D0401P-BCU3

FCU1-D040.8N-ACU3/SN	29
FCU1-D040.8N-BCU3/SN	29
FCU1-D040.8P-ACU3/SN	30
FCU1-D040.8P-BCU3/SN	30

FCU1-050.8NU	21	FCU1-0501NU

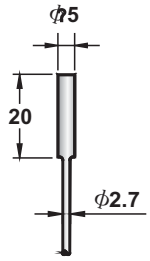
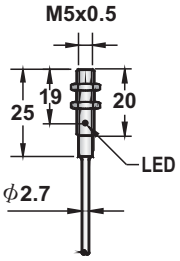
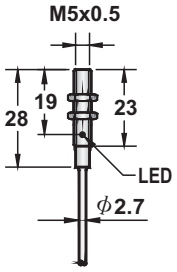
Connecting cable:
M8 female pico-style,screw locking,with moulded cable.

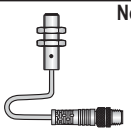
Connecting cable:
female pico-style,snap-in device,with moulded cable.

Note:
All cable type have pigtail connect mode,
*CU***/p
└ pigtail mode

		2.7ϕ 3x0.15
approx.14 g	approx.14 g	approx.25 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

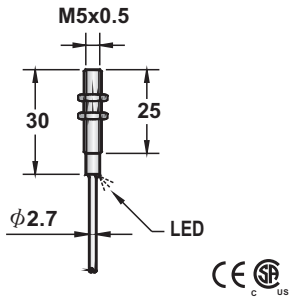
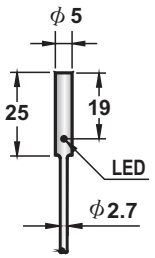
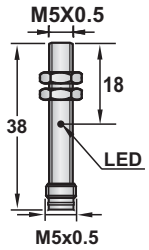
ϕ5			M5			M5		
●			●			●		
1.0 mm		1.5 mm	0.8 mm		1.0 mm	0.8 mm		1.0 mm
stainless steel			stainless steel			stainless steel		
●			●			●		
								
6-12VDC			10-30VDC or 5-36VDC			10-30VDC or 5-36VDC		
<10%			<10%			<10%		
<1.1mA(ON)			<10mA			<10mA		
-			200mA			200mA		
-			<0.01mA			<0.01mA		
-			-			-		
-			-			-		
-			<1.5V			<1.5V		
0.5KHZ			2KHZ			2KHZ		
0.2ms/0.2ms			0.1ms/0.1ms			0.1ms/0.1ms		
<15%(Sr)			<15%(Sr)			<15%(Sr)		
-			<1.0%(Sr)			<1.0%(Sr)		
IP67			IP67			IP67		
-25°C - +70°C			-25°C - +70°C			-25°C - +70°C		
<1%(Sr)			<10%(Sr)			<10%(Sr)		
-			YES			YES		
-			220mA			220mA		
<10ms			<10ms			<10ms		
RFI>3V/m / EFT>1KV / ESD>4KV (contact)			RFI>3V/m / EFT>1KV / ESD>4KV (contact)			RFI>3V/m / EFT>1KV / ESD>4KV (contact)		
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2			IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2			IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2		
POM			POM			POM		
			FCU1-050.8N-A3S2	1	FCU1-0501N-A3S2	FCU1-050.8N-A3U2	1	FCU1-0501N-A3U2
			FCU1-050.8N-B3S2	2	FCU1-0501N-B3S2	FCU1-050.8N-B3U2	2	FCU1-0501N-B3U2
			FCU1-050.8P-A3S2	3	FCU1-0501P-A3S2	FCU1-050.8P-A3U2	3	FCU1-0501P-A3U2
			FCU1-050.8P-B3S2	4	FCU1-0501P-B3S2	FCU1-050.8P-B3U2	4	FCU1-0501P-B3U2
FCU1-D0501NU	21	FCU1-D051.5NU						
			ICU1-050.8N-A3S2	1	ICU1-0501N-A3S2	ICU1-050.8N-A3U2	1	ICU1-0501N-A3U2
			ICU1-050.8N-B3S2	2	ICU1-0501N-B3S2	ICU1-050.8N-B3U2	2	ICU1-0501N-B3U2
			ICU1-050.8P-A3S2	3	ICU1-0501P-A3S2	ICU1-050.8P-A3U2	3	ICU1-0501P-A3U2
			ICU1-050.8P-B3S2	4	ICU1-0501P-B3S2	ICU1-050.8P-B3U2	4	ICU1-0501P-B3U2



Note:
All cable type have pigtail connect mode,
*CU***/p
pigtail mode

2.7ϕ 3x0.15	2.7ϕ 2x0.15	2.7ϕ 2x0.15
approx.25 g	approx.25 g	approx.25 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

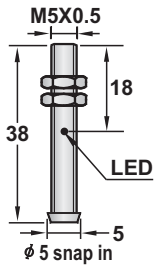
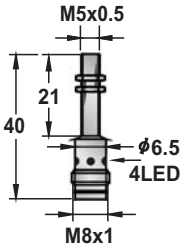
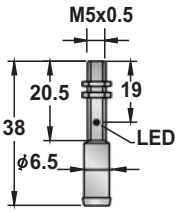
M5	ϕ5	M5
●	●	●
0.8 mm / 1.0 mm	1.0 mm / 1.5 mm	0.8 mm
stainless steel	stainless steel	stainless steel
●	●	●
		
10-30VDC or 5-36VDC	10-30VDC or 5-36VDC	10-30VDC or 5-36VDC
<10%	<10%	<10%
<10mA	<10mA	<10mA
100mA	200mA	200mA
<0.01mA	<0.01mA	<0.01mA
-	-	-
-	-	-
<1.5V(10~30V)	<1.5V(10~30V)	<1.5V
2KHZ	2KHZ	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°C - +70°C	-25°C - +70°C	-25°C - +70°C
<10%(Sr)	<10%(Sr)	<10%(Sr)
NO	YES	YES
–	220mA	220mA
<10ms	<10ms	<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM	POM	POM

FCU1-050.8N-A3L2	1	FCU1-0501N-A3L2
FCU1-050.8N-B3L2	2	FCU1-0501N-B3L2
FCU1-050.8P-A3L2	3	FCU1-0501P-A3L2
FCU1-050.8P-B3L2	4	FCU1-0501P-B3L2
ICU1-050.8N-A3L2	1	ICU1-0501N-A3L2
ICU1-050.8N-B3L2	2	ICU1-0501N-B3L2
ICU1-050.8P-A3L2	3	ICU1-0501P-A3L2
ICU1-050.8P-B3L2	4	ICU1-0501P-B3L2

FCU1-D0501N-A3U2	1	FCU1-D051.5N-A3U2
FCU1-D0501N-B3U2	2	FCU1-D051.5N-B3U2
FCU1-D0501P-A3U2	3	FCU1-D051.5P-A3U2
FCU1-D0501P-B3U2	4	FCU1-D051.5P-B3U2
ICU1-D0501N-A3U2	1	ICU1-D051.5N-A3U2
ICU1-D0501N-B3U2	2	ICU1-D051.5N-B3U2
ICU1-D0501P-A3U2	3	ICU1-D051.5P-A3U2
ICU1-D0501P-B3U2	4	ICU1-D051.5P-B3U2

2.7ϕ 3x0.15	2.7ϕ 3x0.15	
approx.25 g	approx.25 g	Approx.13 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

M5	M5	M 5
●	●	●
0.8 mm | 1.0 mm	0.8 mm | 1.0 mm	0.8 mm | 1.0 mm
stainless steel	stainless steel	stainless steel
●	●	●
		
10-30VDC or 5-36VDC	10-30VDC or 5-36VDC	10-30VDC or 5-36VDC
<10%	<10%	<10%
<10mA	<10mA	<10mA
200mA	200mA	200mA
<0.01mA	<0.01mA	<0.01mA
-	-	-
-	-	-
<1.5V	<1.5V	<1.5V
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°C - +70°C	-25°C - +70°C	-25°C - +70°C
<10%(Sr)	<10%(Sr)	<10%(Sr)
YES	YES	YES
220mA	220mA	220mA
<10ms	<10ms	<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)	RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM	POM	POM

FCU1-050.8N-AMU4/SN	25	
FCU1-050.8N-BMU4/SN	26	
FCU1-050.8P-AMU4/SN	27	
FCU1-050.8P-BMU4/SN	28	

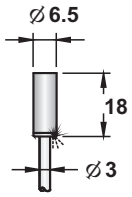
FCU1-050.8N-ACU3	29	FCU1-0501N-ACU3
FCU1-050.8N-BCU3	29	FCU1-0501N-BCU3
FCU1-050.8P-ACU3	30	FCU1-0501P-ACU3
FCU1-050.8P-BCU3	30	FCU1-0501P-BCU3

FCU1-050.8N-ACU3/SN	29	FCU1-0501N-ACU3/SN
FCU1-050.8N-BCU3/SN	29	FCU1-0501N-BCU3/SN
FCU1-050.8P-ACU3/SN	30	FCU1-0501P-ACU3/SN
FCU1-050.8P-BCU3/SN	30	FCU1-0501P-BCU3/SN

ϕ5 Miniature snap in connector	Connecting cable: M8 female pico-style,screw locking,with moulded cable.	Connecting cable: female pico-style,snap-in device,with moulded cable.
Approx.13 g	Approx.14 g	Approx.14 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

ϕ6.5		
●		
1.0 mm	2.0 mm	3.0 mm
stainless steel		
●		



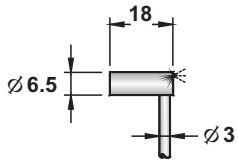
10-30VDC
<10%
<10mA
200mA
<0.01mA
-
-
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM

FCU1-D0601N-A3R2	1	ECU1-D0602N-A3R2	1	LCU1-D0603N-A3R2
FCU1-D0601N-B3R2	2	ECU1-D0602N-B3R2	2	LCU1-D0603N-B3R2
FCU1-D0601P-A3R2	3	ECU1-D0602P-A3R2	3	LCU1-D0603P-A3R2
FCU1-D0601P-B3R2	4	ECU1-D0602P-B3R2	4	LCU1-D0603P-B3R2

Note:
All cable type have pigtail connect mode,
*CU***/ P → pigtail mode

3 ϕ3x0.15
approx.25 g

ϕ6.5		
●		
1.0 mm	2.0 mm	3.0 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
<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

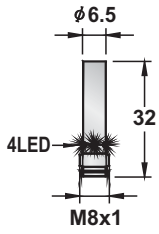
FCU1-D0601N-A3X2	1			
FCU1-D0601N-B3X2	2			
FCU1-D0601P-A3X2	3			
FCU1-D0601P-B3X2	4			

Note:
All cable type have pigtail connect mode,
*CU***/ P → pigtail mode

3 ϕ3x0.15
approx.25 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

ϕ 6.5		
●		
1.0 mm	2.0 mm	3.0 mm
stainless steel		
●		



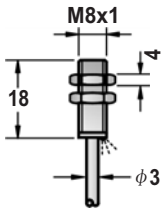
10-30VDC
<10%
<10mA
200mA
<0.01mA
-
-
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<10%(Sr)
YES
220mA
<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM

FCU1-D0601N-ACR3	29	ECU1-D0602N-ACR3	29	LCU1-D0603N-ACR3
FCU1-D0601N-BCR3	29	ECU1-D0602N-BCR3	29	LCU1-D0603N-BCR3
FCU1-D0601P-ACR3	30	ECU1-D0602P-ACR3	30	LCU1-D0603P-ACR3
FCU1-D0601P-BCR3	30	ECU1-D0602P-BCR3	30	LCU1-D0603P-BCR3

Connecting cable:
M8 female pico-style,screw locking,with moulded cable.

Approx.15 g

M 8		
●		
1.0 mm	2.0 mm	3.0 mm
stainless steel		
●		



10-30VDC
<10%
<10mA
200mA
<0.01mA
-
-
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25℃ - +70℃
<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

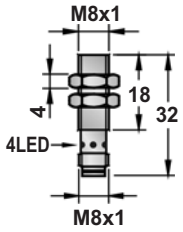
FCU1-0801N-A3R2	1	ECU1-0802N-A3R2	1	LCU1-0803N-A3R2
FCU1-0801N-B3R2	2	ECU1-0802N-B3R2	2	LCU1-0803N-B3R2
FCU1-0801P-A3R2	3	ECU1-0802P-A3R2	3	LCU1-0803P-A3R2
FCU1-0801P-B3R2	4	ECU1-0802P-B3R2	4	LCU1-0803P-B3R2

Note:
All cable type have pigtail connect mode,
*CU***/p
└── pigtail mode

3 ϕ 3x0.15
approx.25 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

M 8		
●		
1.0 mm	2.0 mm	3.0 mm
stainless steel		
●		



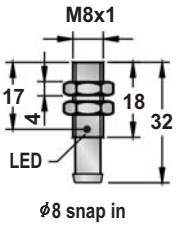
10-30VDC	
<10%	
<10mA	
200mA	
<0.01mA	
-	
-	
<1.5V	
2KHZ	
0.1ms/0.1ms	
<15%(Sr)	
<1.0%(Sr)	
IP67	
-25°C - +70°C	
<10%(Sr)	
YES	
220mA	
<10ms	
RFI>3V/m / EFT>1KV / ESD>4KV (contact)	
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2	
POM	

FCU1-0801N-ACR3	1	ECU1-0802N-ACR3	1	LCU1-0803N-ACR3
FCU1-0801N-BCR3	2	ECU1-0802N-BCR3	2	LCU1-0803N-BCR3
FCU1-0801P-ACR3	3	ECU1-0802P-ACR3	3	LCU1-0803P-ACR3
FCU1-0801P-BCR3	4	ECU1-0802P-BCR3	4	LCU1-0803P-BCR3

Connecting cable:
M8 female pico-style, screw locking, with moulded cable.

Approx.17 g

M 8		
●		
1.0 mm	2.0 mm	3.0 mm
stainless steel		
●		



ϕ8 snap in

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	
<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	

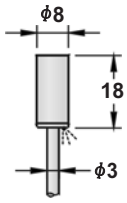
FCU1-0801N-ACR3/SN	25	ECU1-0802N-ACR3/SN	25	LCU1-0803N-ACR3/SN
FCU1-0801N-BCR3/SN	25	ECU1-0802N-BCR3/SN	25	LCU1-0803N-BCR3/SN
FCU1-0801P-ACR3/SN	26	ECU1-0802P-ACR3/SN	26	LCU1-0803P-ACR3/SN
FCU1-0801P-BCR3/SN	26	ECU1-0802P-BCR3/SN	26	LCU1-0803P-BCR3/SN

Connecting cable:
female pico-style,snap-in device,with moulded cable.

Approx.17 g

DC ULTRA-MINI TYPE INDUCTIVE PROXIMITY SWITCH

ϕ8		
●		
1.0 mm	2.0 mm	3.0 mm
stainless steel		
●		



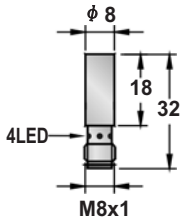
10-30VDC
<10%
<10mA
200mA
<0.01mA
-
-
<1.5V
2KHZ
0.1ms/0.1ms
<15%(Sr)
<1.0%(Sr)
IP67
-25°C - +70°C
<10%(Sr)
YES
220mA
<10ms
RFI>3V/m / EFT>1KV / ESD>4KV (contact)
IEC 60947-5-2,Part 7.4.1 / IEC 60947-5-2,Part 7.4.2
POM

FCU1-D0801N-A3R2	1	ECU1-D0802N-A3R2	1	LCU1-D0803N-A3R2
FCU1-D0801N-B3R2	2	ECU1-D0802N-B3R2	2	LCU1-D0803N-B3R2
FCU1-D0801P-A3R2	3	ECU1-D0802P-A3R2	3	LCU1-D0803P-A3R2
FCU1-D0801P-B3R2	4	ECU1-D0802P-B3R2	4	LCU1-D0803P-B3R2

Note:
All cable type have pigtail connect mode,
*CU***/p
└ pigtail mode

3 ϕ 3x0.15
approx.25 g

ϕ8		
●		
1.0 mm	2.0 mm	3.0 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
<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-D0801N-ACR3	29	ECU1-D0802N-ACR3	29	LCU1-D0803N-ACR3
FCU1-D0801N-BCR3	29	ECU1-D0802N-BCR3	29	LCU1-D0803N-BCR3
FCU1-D0801P-ACR3	30	ECU1-D0802P-ACR3	30	LCU1-D0803P-ACR3
FCU1-D0801P-BCR3	30	ECU1-D0802P-BCR3	30	LCU1-D0803P-BCR3

Connecting cable:
M8 female pico-style,screw locking,with moulded cable.

approx.25 g