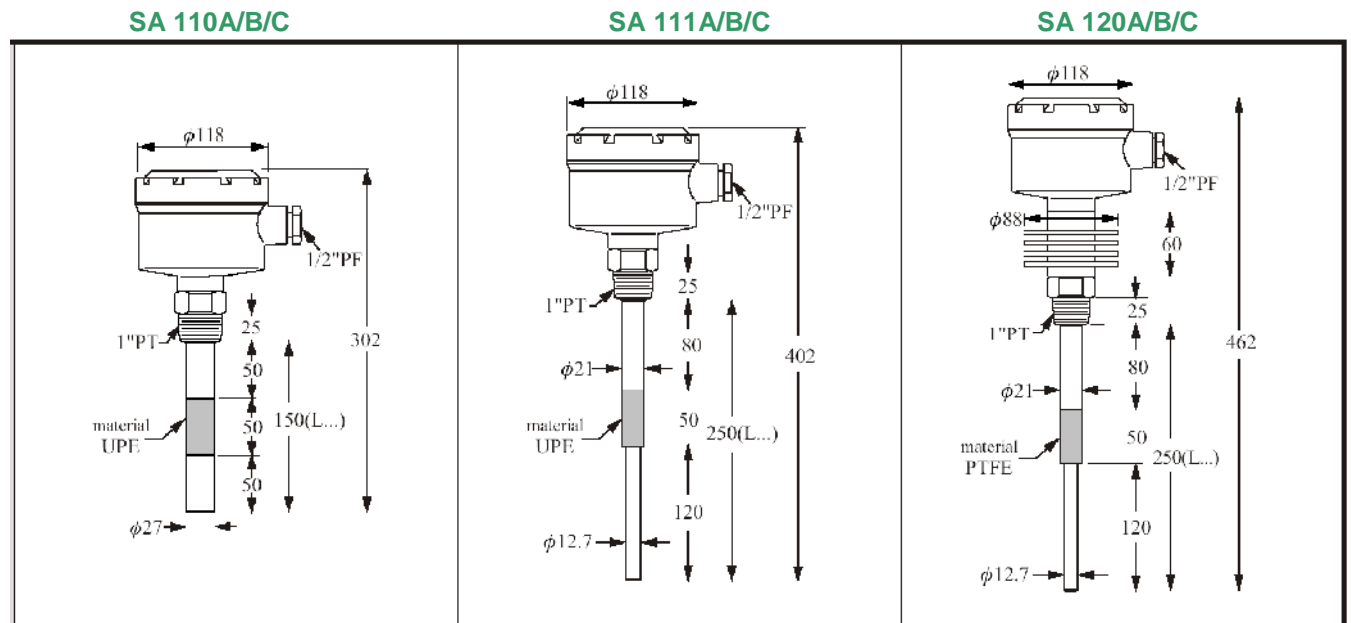


- 1. SA110 SA111 A/B/C -
- 2. HI-Temp SA120 SA128 A/B/C -
- 3. Corrosion-Proof SA130 SA132 A/B/C -
- 4. SA140 A/B/C -
- 5. SA150 A/B/C -
- 6. SA160 A/B/C -
- 7. Explosion-Proof SA170 D ~ SA178D -
- 8. SA180 & SA181 A/B/C -

EX-75U

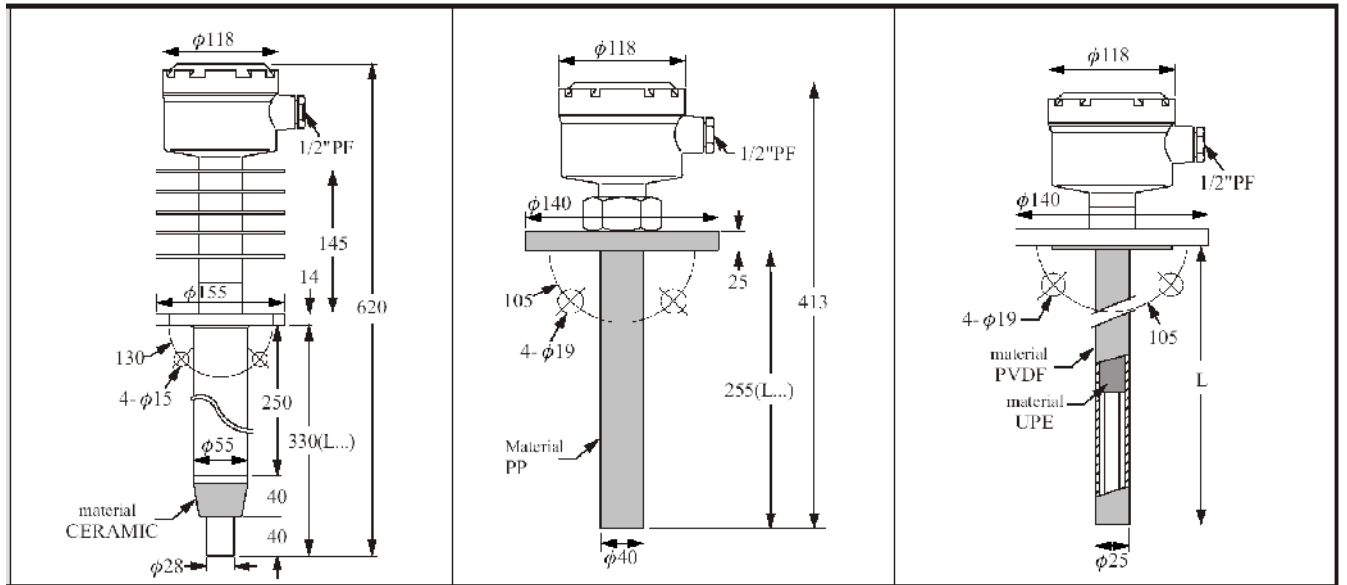


	SA 110A/B/C	SA 111A/B/C	SA 120A/B/C
	[]	[]	[HI-TEMP]
	-20°C ~ 80°C	-20°C ~ 80°C	-20° ~ 200°C
	SUS 304	SUS 304	SUS 304
	UPE	UPE	PTFE
	1"PT (SUS)	1"PT (SUS)	1"PT (SUS)
	10pf, 20pf, 40pf	10pf, 20pf, 40pf	10pf, 20pf, 40pf
	. 1.9	. 1.9	. 2.4
	Aluminum IP65		
	~ 110 / 220V ± 1 0% =24V		
	0-6		
	2W		
	SPDT 5A/240VAC	5A/30VDC	NPN 100mA

SA 128A/B/C

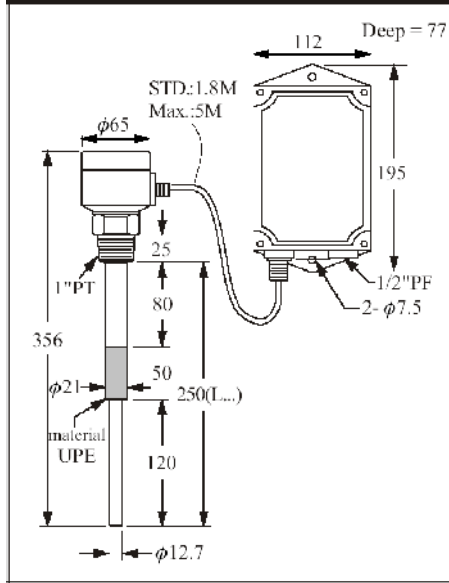
SA 130A/B/C

SA 132A/B/C

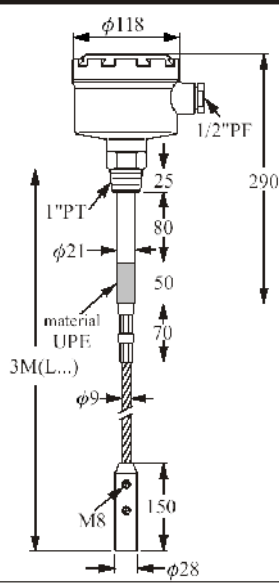


	SA 128A/B/C [Super HI-TEMP]	SA 130A/B/C [Corrosion-Proof]	SA 132A/B/C [Corrosion-Proof]
	-20°C ~ 800°C	-20°C ~ 80°C	-20° ~ 120°C
	SUS 304 / 316	SUS 304	SUS 304 PVDF
		UPE	UPE
	2-1/2" 5 / 2 (SUS)	1-1/2" 10 / 2	1-1/2" 10 / 2 SUS+ PVDF)
	10pf, 20pf	10pf	10pf, 20pf
	.65	.20	
	Aluminum IP65		
	~ 110 / 220V ± 1 0% = 16-24V		
	0-6		
	2W		
	5A/240VAC or 5A/30VDC, SPOT		NPN 100mA

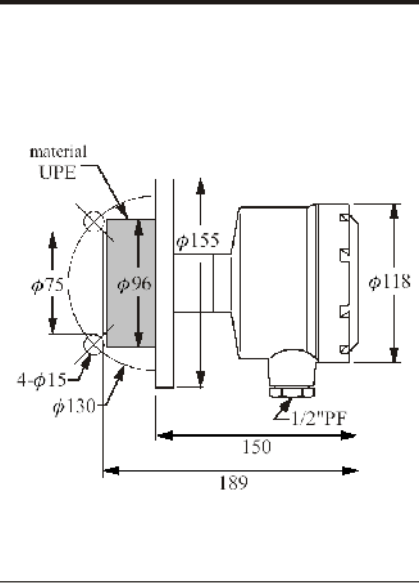
SA 140A/B/C



SA 150A/B/C



SA 160A/B/C



	SA 140A/B/C	SA 150A/B/C	SA 160A/B/C5
	[]	[]	[]
	-20°C ~ 80°C	-20°C ~ 80°C	-20° ~ 80°C
	SUS 304/316	SUS 304/316	SUS 304/316
	UPE	UPE	UPE
	1"PT (SUS)	1"PT (SUS)	2-1/2" 5 / 2 (SUS)
	10pf	10pf, 20pf, 40pf	10pf, 20pf, 40pf
	.3.0	.4.1	.3.2
	Aluminum IP65		
	~ 110 / 220V ± 10% =24V		
	0-6		
	2W		
	5A/240VAC or 5A/30VDC, SPOT		NPN 100mA

	SA 180 A/B/C	SA 181 A/B/C	SA 190 R/N
	(IP65)		
	UPE	PTFE	PP (SA 190R/N) POM (SA 190R-M / SA 190N-M
	UPE	PTFE	---
	110/220 16~24	+/-10%	20 - 250 /
	: 5 /250 100	5 /30 , NPN,	R: : 5 /250 5 /30 N : MOSFET 400 ~/=60
	2		
	1"PT (SUS)		
	-20~80	-20~200	-20~80
	10pf () 20pf ()	10pf () 20pf ()	10pf ()
	0~6		
	2	2,5	0,8

	SA 270	SA 271	SA 272
	(IP65)		
	SUS304/316		
	UPE	UPE	PTFE
	110/220 . +/-10% 16~24 .		
	: 5 /250 . 5 /30 . , NPN, 100		
	2		
	1"PT (SUS)		
	-20~80	-20~80	-20~200
	10pf () 20pf, 40pf ()		
	Ex dia II C T4~T6 DIP A21 T _A , T3~T6		
	1,9	2.4	4,1

	SA 273	SA 274	SA 275
	(IP65)		
	SUS 304/316 ()	SUS 304/316	SUS 304/316
	UPE	PVDF	PTFE
	110/220 . +/-10% 16~24 .		
	: 5 /250 . 5 /30 . , NPN, 100mA		
	2		
:	1 1/2" 10 / 2 (PP)	1 1/2" 10 / 2 (SUS) PVDF	1"PT (SUS)
	-20~80	-20~120	-20~80
	10pf () 20pf, 40pf ()		
	Ex dia II C T4~T6 DIP A21 T _A , T3~T6		
.	1,9		4,1

	SA 276	SA 277	SA 278
	(IP65)		
	SUS 304/316	PTFE UPE	PTFE UPE
	PTFE UPE	PTFE UPE	PTFE UPE
	110/220		16~24
	: 5 /250		5 /30 , NPN, 100
	2		
:	2 1/2" 5 / 2 (SUS)	1"PT (SUS)	1"PT (SUS)
	-20~80	-20~200	-20~80
	10pf () 20, 40 pf ()		
	Ex a II C T4~T6		
.	3,2	3.1	2

	SA 370	SA 371	SA 372
	(IP65)	(IP65)	(IP65)
	SUS 304/316	SUS 304/316	SUS 304/316
	UPE	UPE	PTFE
	16~24		
	NPN, 100		
	2		
:	1\"PT (SUS)		
	-20~80	-20~80	-20~200
	10pf () 20pf, 40pf ()	10pf () 20, 40 pf ()	10pf () 20, 40pf ()
	Ex a II C T3~T6		
	1,9	2.4	4.1

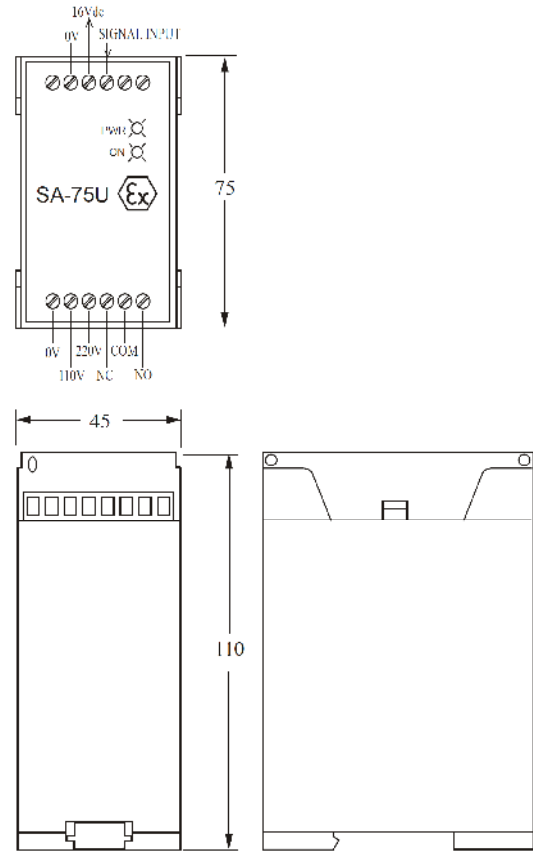
	SA 373	SA 374	SA 375
	(IP65)	(IP65)	(IP65)
	SUS 304/316 ()	SUS 304/316 (VDF)	SUS 304/316
	UPE	PTFE	PTFE
	16~24 .		
	NPN, 100		
	2		
	1 1/2" 10 / 2 (PP)	2 1/2" 10 / 2 (SUS)	1"PT (SUS)
	-20~80	-20~120	-20~80
	10pf () 20pf, 40pf ()		
	Ex a II C T4~T6		
	1,9		4.1

	SA 376	SA 377	SA 378
		(c SA-75U)	(c SA-75U)
	(IP65)		
	SUS 304/316	PTFE	UPE
	UPE	PTFE	UPE
	16~24		
	NPN, 100		
	2	2	2
:	2 1/2" 5 / 2 (SUS)	1"PT (SUS)	1"PT (SUS)
	-20~80	-20~200	-20~80
	10pf () 20pf, 40pf ()	10pf () 20, 40 pf ()	10pf () 20pf ()
	Ex a II C T4~T6		
	3,2	3,1	2

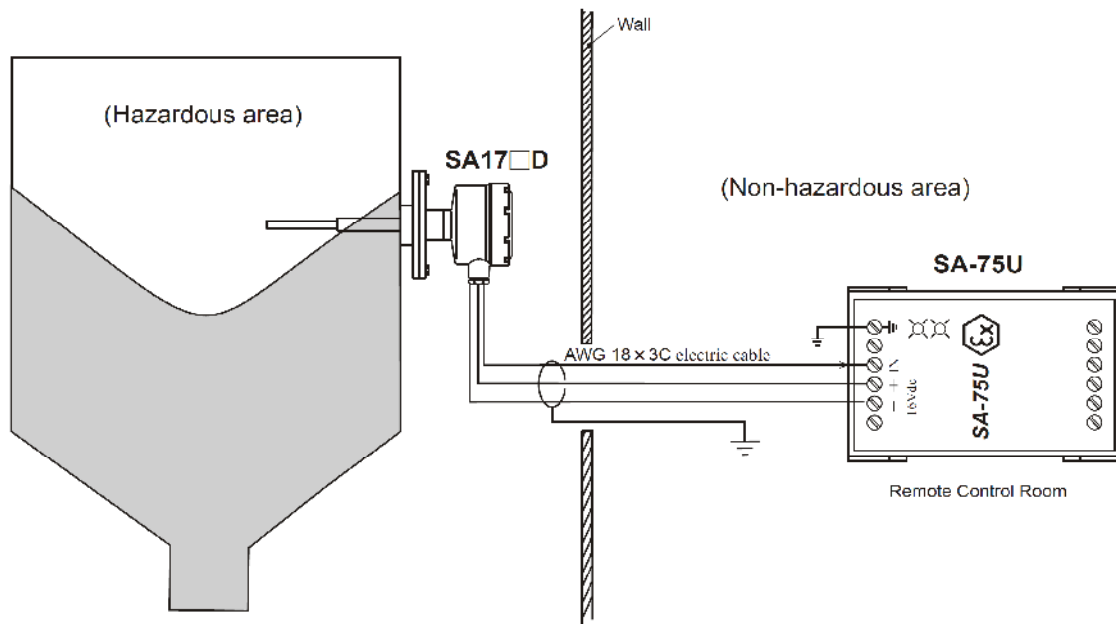
SA-75U INTRINSIC SAFE SIGNAL CONDITIONER

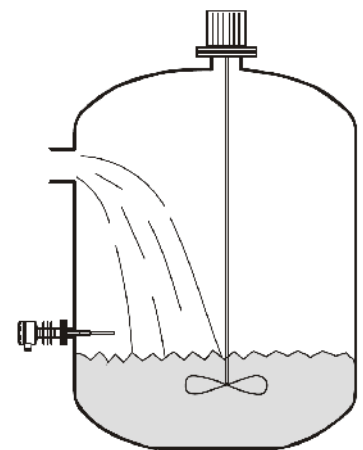
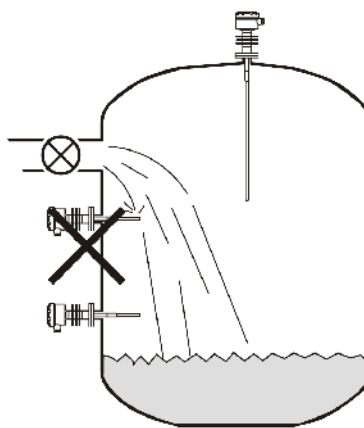
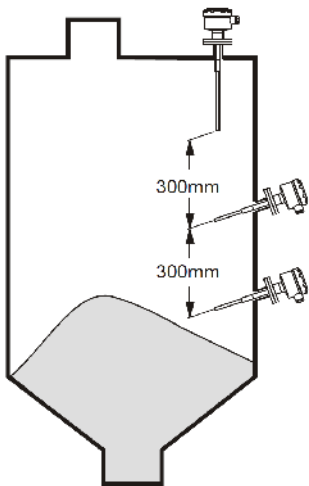
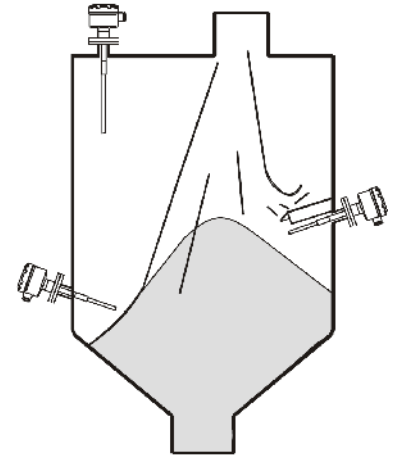
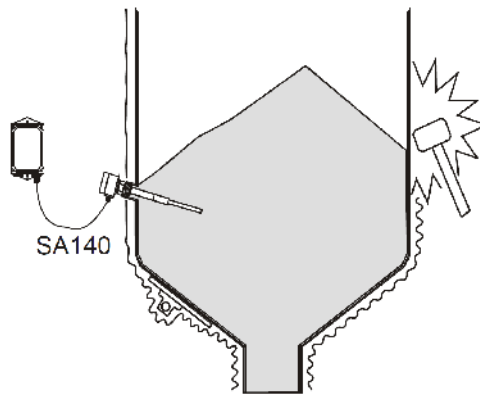
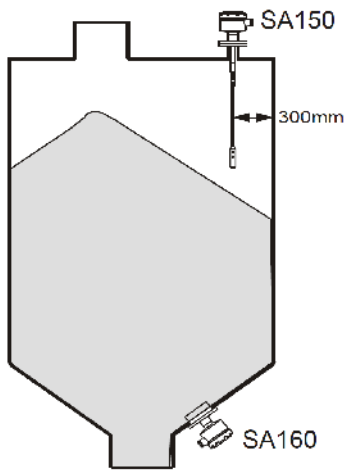
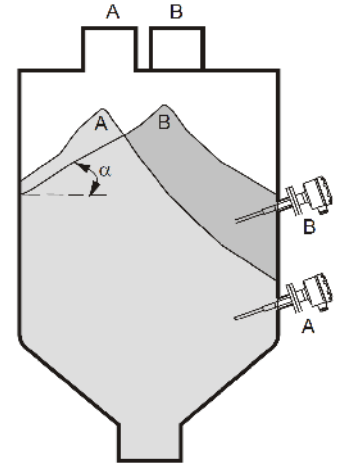
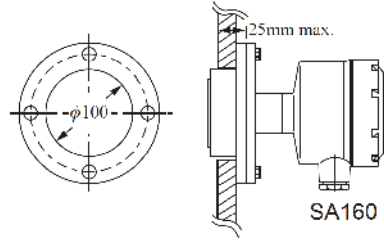
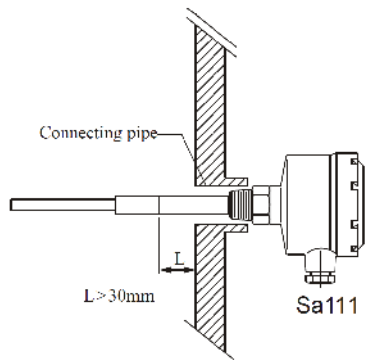
SA-75U Zener barriers inside provide intrinsic safety to SA37□ type level switch. The unit works via a current-limiting feature which protects the device from damage by emission of sparks.

1. Supply voltage : 110 / 220Vac
2. Power consumption : 2W
3. Input signal : NPN transistor
resistance $R_i = 500\Omega$
4. Output voltage : 16 Vdc
5. Short circuit current : 25mA max.
6. Relay output : SPDT
10A /30Vdc
10A /220Vac
7. Operating temp. : $-20^\circ\text{C} \sim 60^\circ\text{C}$
8. Weight : 0.3 kg
9. Enclosure rating : Ex (ia) IIC T6

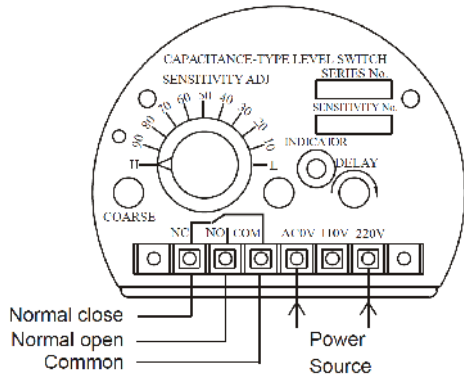


■ WIRING CONFIGURATION

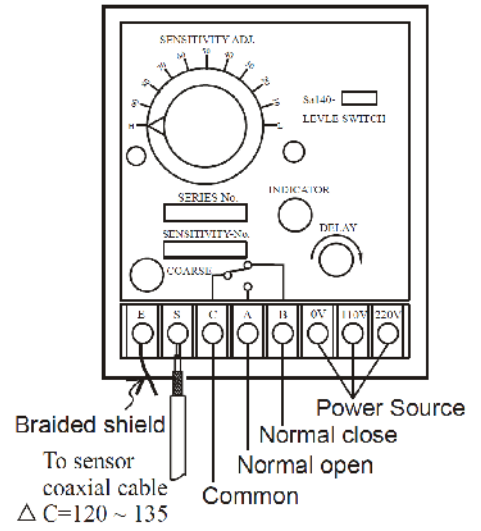




SA110,120,130,150,160,180,270,370 A/B/C/D



SA140 A/B/C/D



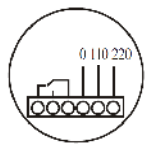
SA 110 A DQ (1000)

Model

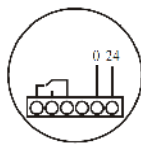
- 11□ --- Standard Type
- 12□ --- Hi-temp. Type
- 13□ --- Corrosion Proof Type
- 140 --- Remote Probe Type
- 150 --- Wire Probe Type
- 160 --- Plate Type
- 18□ --- Anti-Static Type
- 27□ --- Explosion Proof Type
- 37□ --- Explosion Proof Type

Terminal Arrangement

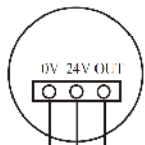
- A---110V/220Vac
- B---DC24V, Relay output
- C---DC24V, NPN transistor output
- D---Designed for use with SA-75U



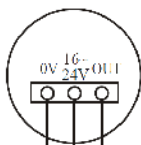
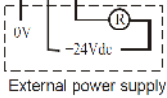
SA□□□ A
110V/220VAC
Relay output



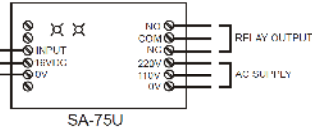
SA□□□ B
DC24V
Relay output



SA□□□ C
DC24V
Transistor npn output



SA37□ D
Ex (ia) IIC
Control unit output



Connection

- | | | |
|-----------------|--------------------------|-----------|
| C---3/4"(20A) | M---5kg/cm ² | W---PN 10 |
| D---1"(25A) | N---10kg/cm ² | X---PN 16 |
| E---1-1/2"(40A) | O---150 Lbs | Y---PN 25 |
| F---2"(50A) | P---300 Lbs | Z---PN 40 |
| G---2-1/2"(65A) | Q---PT | |
| H---3"(80A) | R---PF(G) | |
| I ---4"(100A) | T---BSP | |
| J---5"(125A) | U---NPT | |
| K---6"(150A) | S---Others | |
| S---Others | | |

Probe Length (mm)

- 0500 500
- 1000 501 ~ 1000mm
- 1500 1001 ~ 1500mm

6mm.

* +/- 5mm

SA 190 **R** - **P** **D** **Q**

Supply Voltage & Output Rating

R: 20~250, 50/60Hz Vac/dc (Relay)
N: 20~250, 50/60Hz Vac/dc Transistor

Probe Material

P: PP
M: POM

Connection

D: 1" (25A) Q: PT
 U: NPT