

INSTRUMENTATION SWITCHES

ISO 9001 APPROVED

Voltmeter Switches

VOLTMETER

OFF

L1-N
L2-N
L3-N

61311E

1	2	4	6	8
1	2	4	6	8
1	2	4	6	8
1	2	4	6	8

OFF

L1-N
L2-N
L3-N

VOLTMETER

OFF

L1-L2
L2-L3
L3-L1

61312E

1	3	5	
2	4	6	8
1	3	5	
1	3	5	
1	3	5	

OFF

L1-L2
L2-L3
L3-L1

VOLTMETER

OFF

L1-L2
L2-L3
L3-L1

L1-N
L2-N
L3-N

61313E

LL LN

2	4	6	8	10	2
2	4	6	8	10	2
2	4	6	8	10	2
2	4	6	8	10	2
2	4	6	8	10	2

L3-L1
L2-L3
L1-L2
OFF
L1-N
L2-N
L3-N

VOLTMETER

OFF

L1-N
L2-N
L3-N

61314B

2	4	6	8	10
2	4	6	8	10
2	4	6	8	10
2	4	6	8	10
2	4	6	8	10

L1-L2
L2-L3
L3-L1
L1-N
L2-N
L3-N

VOLTMETER

OFF

L1-L2
L2-L3
L3-L1

L1-N

61317E

2	4	6	10
2	4	6	10
2	4	6	10
2	4	6	10
2	4	6	10

L3-L1
L2-L3
L1-L2
OFF
L1-N

VOLTMETER

OFF

L1-L2
L2-L3
L3-L1

61318F

2	4	6	10	14	16
2	4	6	10	14	16
2	4	6	10	14	16
2	4	6	10	14	16
2	4	6	10	14	16

L3-L1
L2-L3
L1-L2
OFF
L1-N
L2-N
L3-N

VOLTMETER

L1-L2
L2-L3
L3-L1

61319B

2	4	6
2	4	6
2	4	6
2	4	6
2	4	6

L1-L2
L2-L3
L3-L1

VOLTMETER

L1-L2
L2-L3
L3-L1

OFF

61485B

2	4	6
2	4	6
2	4	6
2	4	6
2	4	6

OFF

L1-L2
L2-L3
L3-L1

Voltmeter / Ammeter Combination Switches

**VOLTMETER
AMMETER**

1
OFF
2
3

61336C

2	4	10	12	16	18
2	4	10	12	16	18
2	4	10	12	16	18
2	4	10	12	16	18
2	4	10	12	16	18

OFF

L1-L2, PH1
L2-L3, PH2
L3-L1, PH3

**VOLTMETER
AMMETER**

2
1
3
4

61337B

2	6	10	14	18	20
2	6	10	14	18	20
2	6	10	14	18	20
2	6	10	14	18	20
2	6	10	14	18	20

L1-L2
L2-L3, PH1
L3-L1, PH2
L1-N, PH3

**VOLTMETER
AMMETER**

1
OFF
2
3

61338C

2	4	6	10	14	18
2	4	6	10	14	18
2	4	6	10	14	18
2	4	6	10	14	18
2	4	6	10	14	18

OFF

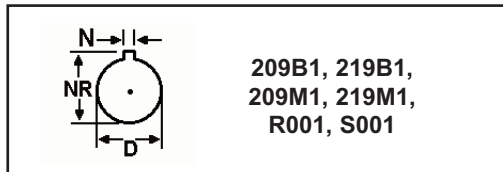
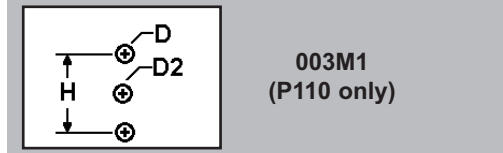
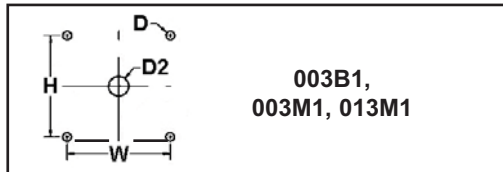
L1-N, PH1
L2-N, PH2
L3-N, PH3

Mounting and Plate Dimensions



PC&S products are manufactured under a total quality system that provides total engineering integrity. Products have been engineered to satisfy specifications, performance, reliability and life cycle to exacting standards.

PC&S strives to meet customer requirements and exceed expectations. We do this through monitoring and measuring our process and product, customer satisfaction, internal auditing, analysis of production data, continual improvement including corrective and preventative action. Our quality management systems are certified in accordance with ISO 9001:2000 standards.



STANDARD SQUARE MOUNTING

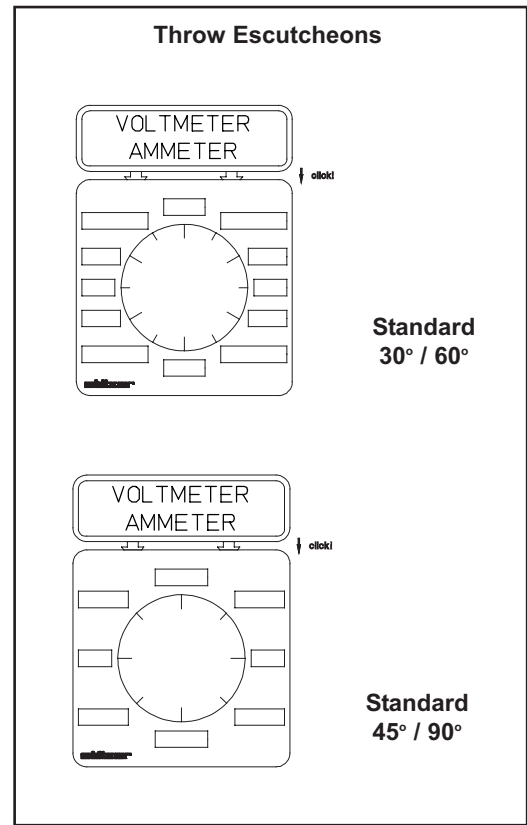
Switch Types	Style	Inches (mm)			
		H	W	D	D2
M221 P221	003B1 003M1	1.42 (36)	1.42 (36)	0.18 (4.5)	0.47 (12)
M221 P221	013M1	1.89 (48)	1.89 (48)	0.20 (5)	0.59 (15)
P110	013M1	1.42 (36)	1.42 (36)	0.18 (4.5)	0.47 (12)

OPTIONAL TWO-HOLE MOUNTING

Switch Types	Style	Inches (mm)		
		H	D	D2
P110	003M1	0.79 (20)	0.18 (4.5)	0.31 (8)

OPTIONAL ROUND HOLE MOUNTING

Switch Types	Style	Inches (mm)		
		D	N	NR
M221 P221	209B1 209M1	1.20 (30.5)	0.19 (4.8)	1.30 (33)
M221 P221	219B1 219M1	0.89 (22.5)	0.13 (3.3)	0.95 (24.2)
P110	R001	0.89 (22.5)	0.13 (3.3)	0.95 (24)
P110	S001	0.64 (16.2)	0.07 (1.7)	0.70 (17.9)



LEGEND PLATE DIMENSIONS

	Style	Inches (mm)		
		M221	P110	P221
Height "H" (Square)	003 209 213	1.89 (48)	1.18 (30)	1.89 (48)
	013	2.52 (64)	1.89 (48)	2.52 (64)
Width "W" (Square)	003 209 219	1.89 (48)	1.18 (30)	1.89 (48)
	013	2.52 (48)	1.89 (30)	2.52 (48)
Top Escutcheon Plate		H 0.67 (17)		W 1.89 (48)

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