



Westinghouse Electric Corporation
Switchgear Division
East Pittsburgh, Pa. 15112

Technical Data
34-320

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Indicating Lamps, Terminal Blocks,
Terminals, Switchboard Details

Switchgear Details

Indicating Lamps, Type EZC Minalite®, For 1/8", 3/16", 1/4" Thick Panel Mounting

Ordering Information:

To order complete indicator specify style number for service voltage and lens color required.

Service Voltage Ac - Dc	Styles and Lens Colors ^①					
	Red	Green	White	Blue	Amber	Clear
25	449D187G10	449D187G20	449D187G30	449D187G40	449D187G50	449D187G60
50	449D187G11	449D187G21	449D187G31	449D187G41	449D187G51	449D187G61
70	449D187G12	449D187G22	449D187G32	449D187G42	449D187G52	449D187G62
115	449D187G13	449D187G23	449D187G33	449D187G43	449D187G53	449D187G63
125	449D187G14	449D187G24	449D187G34	449D187G44	449D187G54	449D187G64
208	449D187G15	449D187G25	449D187G35	449D187G45	449D187G55	449D187G65
230	449D187G16	449D187G26	449D187G36	449D187G46	449D187G56	449D187G66
250	449D187G17	449D187G27	449D187G37	449D187G47	449D187G57	449D187G67
380	449D187G18	449D187G28	449D187G38	449D187G48	449D187G58	449D187G68
480	449D187G19	449D187G29	449D187G39	449D187G49	449D187G59	449D187G69
50 ^②	449D187G70	449D187G73	449D187G76	449D187G79	449D187G82	449D187G85
125 ^②	449D187G71	449D187G74	449D187G77	449D187G80	449D187G83	449D187G86
250 ^②	449D187G73	449D187G75	449D187G78	449D187G81	449D187G84	449D187G87

① All above styles and prices cover complete indicator with lens, mounting hardware, resistors and 24 volt .032/.038 ampere style 1124156 bulb.

② With tapped resistor for "bright-dim" operation.

® Registered trade mark

Detailed Parts

Description

Red Lens
Green Lens
White Lens
Blue Lens
Amber Lens
Clear Lens

Style

436B303H01
436B303H02
436B303H03
436B303H04
436B303H05
436B303H06

Further Information

Price List 34-009

Indicating Lamps, Rectangular Minalite® For 1/8" to 2" Thick Panel Mounting

Ordering Information:

A complete indicator consists of one receptacle, one resistor, one set of hardware, one lens and one bulb.

Ordering example:

Item 1 - One S #1589 184 rectangular Minalite indicating lamp

Assembly **4**

Item 2 - One S #1124 156 Bulb

Item 3 - One S #1615 688 Red Lens

Service Voltage Ac - Dc	Style Numbers®		Bulb and Lens
	Minalite Assembly Less Lens and Bulb		
	For Panels up to 3/16" Thick	For Panels 1/4" up to 2" Thick	

Table A For Use With 24 Volt - 0.75 Watt Bulb, Style No. 1124 156

25①④	1589 180	1589 180	Bulb S#124 156
50	1589 181	1589 193	
70	1589 182	1589 194	
115	1589 183	1589 195	
125	1589 184	1589 196	
208	1589 185	1589 197	Lens: Select Style From Table C For Required Color
230	1589 186	1589 198	
250	1589 187	1589 199	
380	1589 188	1589 188	
480	1589 189	1589 189	
50②	1589 190	1589 190	
125②	1589 191	1589 191	
250②	1589 192	1589 192	

Table B For Use With 48 Volt - 1.5 Watt Bulb, Style No. 1615 719

50①④	1589 180	1589 180	Bulb S#1615 719
75	1584 570	1615 757	
115	1584 571	1615 758	
125	1584 572	1615 759	
208	1615 754	1615 760	Lens: Select Style From Table C For Required Color
230	1615 755	1615 761	
250	1615 756	1615 762	
380	1615 720	1615 720	
480	1615 721	1615 721	
125②	1615 722	1615 722	
250②	1615 723	1615 723	

① Do not use for circuit breaker trip coil supervision. For this application a special bulb and series resistor are required. Refer to Westinghouse.

② With tapped resistor for "bright-dim" operation.

③ Receptacle, Resistor and Hardware are placed in a carton under one style number. Bulbs and Lenses are supplied as separate items.

④ Style does not include a resistor.

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Table C: Detail Parts

Description	Style
Red Lens	1615 688
Green Lens	1615 689
Clear Lens	1615 690
Blue Lens	1615 691
Amber Lens	1615 692
Opalescent Lens	1615 693
Bulb 24 Volt 0.75 Watt①	1124 156
Bulb 48 Volt 1.5 Watt①	1615 719

① Bulb .032 to 0.38 amperes.

$$W = IE$$

$$.75W = (.031 \times 24V) \quad I = .031$$

$$V = .031 \times \text{RESISTOR VALUE}$$

$$I = .031$$

$$V = .031 \times \text{RESISTOR VALUE}$$



Terminal Blocks

Table A

With washer head terminal screws

No. of Circuits	Style No. Includes: Cover, White Marking Strip and Hardware	Style No. Includes: White Marking Strip and Hardware. No Cover
	Style Number	Style Number
4	804A910G01	804A911G01
5	804A910G02	804A911G02
8	804A910G03	804A911G03
12	804A910G04	804A911G04

Mounting Brackets

(Complete Bracket for 8 and 12-Circuit Terminal Blocks)

Type of Mounting	Style Number
Steel panel or channel frame	1616 016

Table B

With binding head screws with marking strip and cover.

Circuits	Style	Style
4	3710A94G01	3710A95G01
5	3710A94G02	3710A95G02
8	3710A94G03	3710A95G03
12	3710A94G04	3710A95G04

With binding head screws with marking strip - no cover.

Table C

With filister head screws and wire clamp.

No. of Circuits	Without Hardware, Marking Strip or Cover	With Hardware - Marking Strip and Cover	With Hardware and Marking Strip - No Cover
	Style Number	Style Number	Style Number
4	1170 848	1170 852②	1170 851②
5	805 430	1123 963②	542 245②
8	805 431	1123 964②	542 246②
12	805 432②	1123 965②	542 247②

Table D

With High Pressure Connectors

No. of Circuits	With Marking Strip - No Cover	With Marking Strip and Cover
	Style Number	Style Number
4	1196 115②	1491 642
5	1196 116②	1491 643
8	1196 117②	1491 644
12	1196 118②	1491 645

Clamp Type Terminals

Copper	Aluminum
Style Number	Style Number
Cable to Flat	
1718 651A	1799 505
1718 652	
1718 653	
1718 655	
Tube to Flat	
1718 660	

Switchboard Details

Style	Material	Per Set
61410	Markon②	M
129A989G01	Tag	
129A989G02	Insulator②	
129A989G03	Insulator②	
373B602H03		Per Set
Wire Tie①②		M

① Order on TOPS as S#10D0262H01

② Stock items.

③ Installation pliers S#373B