



New Products Located on Pages 21-25



ORDER TERMS & CONDITIONS

Minimum OEM Order Value: \$500.00

Minimum Distributor Order Value: \$250.00

25 Piece Line Item Minimum for Standard Products, Contact Factory For Special Products

Payment Terms: Net 30 Days (with approved credit)

Scheduled Orders:

Full order quantity must be scheduled when order is placed.

Minimum order quantity for scheduled releases is 1,000 pieces per line item.

Minimum release quantity is 500 pieces.

Changes to scheduled quantities or release dates may incur additional charges or delays in production. Orders in production may not be rescheduled.

We reserve the right to over - or under-ship by 5% of order or scheduled release quantities.

Returns for defective materials are accepted after receipt of samples, and issuance of a Return Material Authorization (RMA) Number. **RMAs are valid for 30 days**, and all returns must be accomplished within that time frame. All parts must be in the original packaging.

Order Acknowledgments with our Sales Order number are issued to confirm order quantity, pricing, scheduled ship dates. Please review them. If you need to call to check the status of an order, please have our Sales Order number available.

SoLiCo's sales and engineering personnel will help you determine the best indicator for your application, or help you with a custom design. As our products may be used in a wide variety of applications, the final responsibility in determining the suitability of our products for a specific application rests with you.

It may be possible to build a part number from this catalog that cannot be manufactured. We have included information for each series noting construction limitations. Certain constructions may require components in the lead wires.

Incandescent Lamps / Potting: We strongly recommend potting for all incandescent lamp applications, especially where vibration is a factor. See page 24 for additional information.

We reserve the right to make changes to our products, without prior notice, to improve performance or take advantage of new technologies. The limit of our responsibility under these circumstances is to maintain product fit, function and performance.

Wire length tolerance is: $\pm \frac{1}{4}$ " on leads less than 12"
 $\pm \frac{1}{2}$ " on leads 12" to 36"
 ± 1 " on leads greater than 36"

Strip length tolerance is: $\pm \frac{1}{32}$

LEDs: Due to rapidly changing LED technology, not all devices listed in our catalog may be available as described. We reserve the right to supply the closest equivalent device in appearance and performance.

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All SoLiCo products are RoHS

Agency Approvals: The majority of our indicators carry Agency approvals. Please contact us for the latest Agency information for the specific series and voltages you require.



SoLiCo Facilities:

Hartford, Connecticut
Brownsville, Texas
Matehuala, Mexico

Catalog 12.10
January 2009

UL Information

File # E36730(M)

TUV Information

EN:60598-1
EN:60598-2-1

18, 21 & 24

- Press fits into 0.312" panel hole
- LED, incandescent, and neon illumination
- Three lens styles available

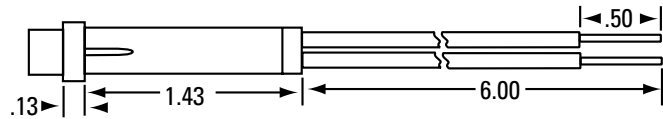
SPECIFICATIONS

Body Material:	Nylon	Wire Strip:	1/2"
Lens Material:	Polycarbonate	Terminals:	.187 QC
Bezel Material:	Brass (Plated)	Panel Thickness:	0.030" min
Wire Gauge:	18 ga.	Certifications:	See Page 1



18 Series

wire leads



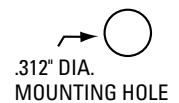
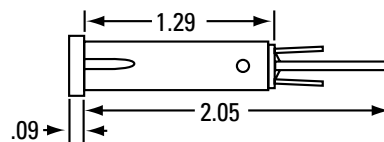
21 Series

wire leads



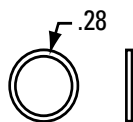
24 Series

tab terminals

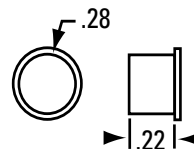


Series	Lamp	Termination	Base	Bezel	Lens
XX	XX	- X	- X	X	- XXX X 0
18	Voltage 2	Type LED	Code 10	Style 6" Wire	Code 1
21	6	LED	11	187 Tabs ⁶	3
24	14	LED	12	Special	X
	28	LED	13		
	125 ¹	LED	15		
	6	INCAND	32		
	14	INCAND	35		
	28	INCAND	39		
	125	NEON	50		
	250	NEON	52		
		Special	XX		

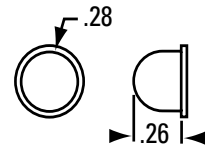
White is Translucent
Clear is Transparent



Lens 20
Flush



Lens 21
High



Lens 22
Dome

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Series 18 Only
2. Bezel Required
3. Translucent Lens is not recommended for use with LED
4. Specify LED Color if applicable
5. Components provided in leads when lens 20 is specified with lamp codes 11 through 15
6. Series 24 only

22, 23

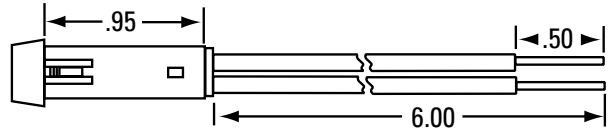
- Snap fits into 0.312" panel hole
- Body and lens are one piece design
- LED, incandescent and neon illumination

SPECIFICATIONS

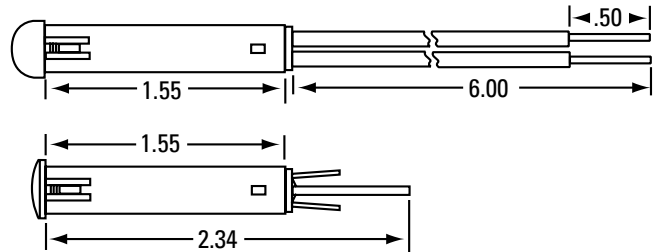
Body Material:	Polycarbonate	Wire Strip:	1/2"
Lens Material:	Polycarbonate	Panel Thickness:	0.025" to 0.060" min
Wire Gauge:	18 ga.	Certifications:	See Page 1



Series 23

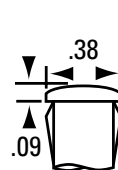


Series 22

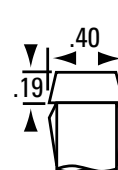


○ .312" DIA. MOUNTING HOLE

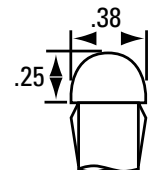
Series	Lamp	Termination	Base	Bezel	Lens
XX	XX	- X	- X	X	- XXX
22	Voltage	Type	Code	Style	Code
23 ²	2	LED	10	6" Wire	1
	6	LED	11	187 Tabs ⁶	3
	14	LED	12	Special	X
	28	LED	13		
	125 ⁴	LED	15		
	6	INCAND	32		
	14	INCAND	35		
	28	INCAND	39		
	125	NEON	50		
	250	NEON	52		
	Special	XX			



Lens 34



Lens 35



Lens 36

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

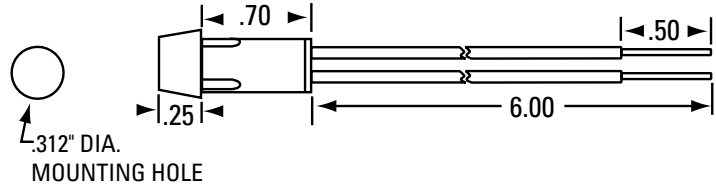
1. Specify LED color if applicable
2. Components provided in leads when Series 23 is specified with lamp codes 11 through 13
3. Available with LED (2V) and incandescent lamps only, contact factory for additional information.
4. Available with Wire Leads only.

- Press fits into 0.312" panel hole
- Body and lens are one piece design
- LED, incandescent and neon illumination

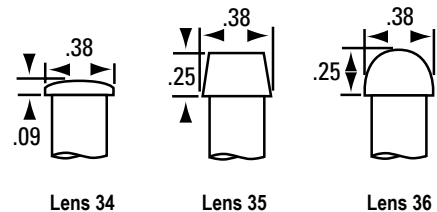
SPECIFICATIONS

Body Material: Polycarbonate
 Lens Material: Polycarbonate
 Wire Gauge: 22 ga.

Wire Strip: 1/2"
 Panel Thickness: 0.030" min
 Certifications: See Page 1



Series	Lamp			Termination		Base		Bezel		Lens			
XX	XX			-	X	-	X	-	X	-	XXX	X	0
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Code
19	2	LED	10	6" Wire	1	N/A	0	None	0	Semi-Dome	342	Red	1
	6	LED	11	Special	X					Cylinder	352	Amber	2
	14	LED	12							Dome	362	Clear ¹	3
	28	LED	13									Green	4
												Blue	5
	6	INCAND	32										
	14	INCAND	35										
	28	INCAND	39										
	125	NEON	50										
	250	NEON	52										
		Special	XX										



ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Specify LED color if applicable

35

-

Body Material:	Polycarbonate	Wire Strip:	1/2"
Lens Material:	Polycarbonate	Panel Thickness:	0.032" to 0.094"
Wire Gauge:	20 ga.	Certifications:	See Page 1



Lens 23 **Lens 24** **Lens 25**

Contact Factory

- Sorenson Lighted Controls, Inc. www.solico.com 1-800-275-7089 (860) 527-3092 5**

28 & 29

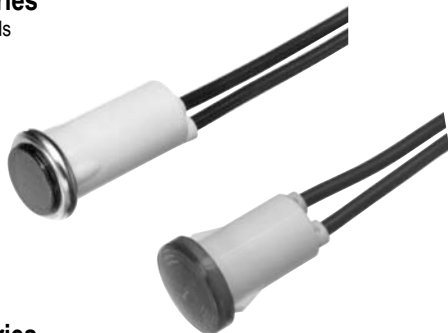
- Fits into 0.500" panel hole
- LED, incandescent, and neon illumination
- Many lens styles available

SPECIFICATIONS

Body Material:	Nylon	Wire Gauge	18 ga.
Lens Material:	Polycarbonate	Wire Strip:	1/2"
Bezel Material	Stainless Steel or Plated Brass	Panel Thickness:	0.030" to 0.0903
		Certifications:	See Page 1

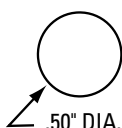
28 Series

wire leads

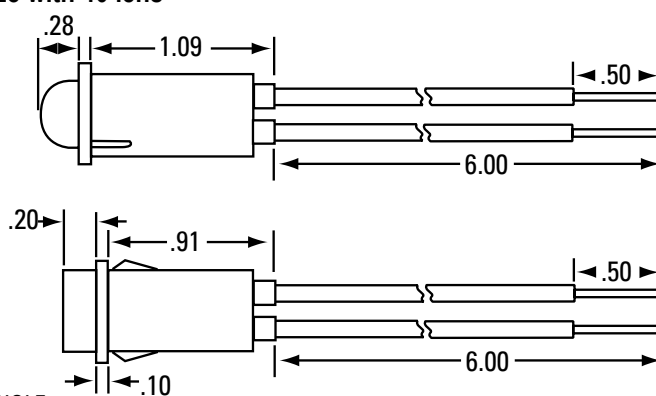


29 Series

wire leads



28 with 40 lens



Series	Lamp			Termination		Base		Bezel		Lens				
XX	XX		-	X	-	X		X	-	XXX		X	0	
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain	
28	2	LED	10	6" Wire		White	1	None	0	.09 Cylinder Translucent ^{1,4}	371	Red	1	
29	6	LED	11	Special	X	Black	2	Stainless	1	.09 Cylinder Diamond ⁴	373	Amber	2	
	14	LED	12					Chrome	2	.09 Cylinder Rings ⁴	376	Clear ²	3	
	28	LED	13					Black	3	.25 Cylinder Translucent ^{1,4}	381	Green	4	
	6	INCAND	32							.25 Cylinder Diamond ⁴	383	Blue	5	
	14	INCAND	35							.25 Cylinder Rings ⁴	386	White	6	
	28	INCAND	39							.46 Cylinder Translucent ^{1,4}	391			
										.46 Cylinder Diamond ⁴	393			
										.46 Cylinder Rings ⁴	396			
	125	NEON	50							Small Dome Translucent ^{1,4}	401	Red	A	
	250	NEON	52							Small Dome Lines ⁴	405	Amber	B	
		Special	XX							Large Dome Translucent ^{1,4}	411	Clear ²	C	
										Large Dome Rings ⁴	416	Green	D	
										Semi Dome Translucent ^{1,5}	421	Blue	E	
										Semi Dome Rings ⁵	426	White	F	
										Flush Lens w/Tapered Bezel ^{3,4}	626			
										Cap, Black (F1C) Translucent ⁵	441			
										Cap, Black (F1C) Transparent ⁵	443			

Lens 37

Lens 38

Lens 39

Lens 40

White is Translucent
Clear is Transparent

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Translucent Lens is not recommended for use with LED
2. Specify LED Color if applicable
3. Polished Bezel only use code 2
4. Bezel required
5. Bezel not available

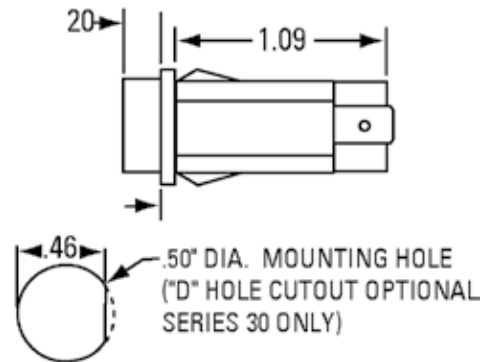
30

- Fits into 0.500" panel hole
- LED, incandescent, and neon illumination
- Many lens styles available

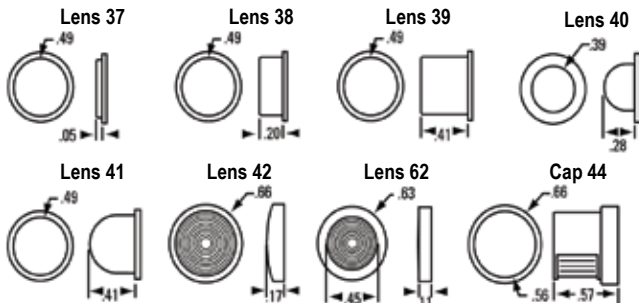
SPECIFICATIONS

Body Material:	Nylon	Panel Thickness:	0.030" to 0.0903
Lens Material:	Polycarbonate	Certifications:	See Page 1
Bezel Material:	Stainless Steel or Plated Brass		

30 with 43 lens



Series	Lamp			Termination		Base		Bezel		Lens			
XX	XX			-	X	-	X	X	-	XXX	X	0	
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain
30	2	LED	10	.187 Tabs	3	White	1	None	0	.09 Cylinder Translucent ^{1,4}	371	Red	1
	6	LED	11	.250 Tabs	4	Black	2	Stainless	1	.09 Cylinder Diamond ⁴	373	Amber	2
	14	LED	12					Chrome	2	.09 Cylinder Rings ⁴	376	Clear ²	3
	28	LED	13					Black	3	.25 Cylinder Translucent ^{1,4}	381	Green	4
										.25 Cylinder Diamond ⁴	383	Blue	5
										.25 Cylinder Rings ⁴	386	White	6
	6	INCAND	32							.46 Cylinder Translucent ^{1,4}	391		
	14	INCAND	35							.46 Cylinder Diamond ⁴	393		
	28	INCAND	39							.46 Cylinder Rings ⁴	396		
	125	NEON	50							Small Dome Translucent ^{1,4}	401		
	250	NEON	52							Small Dome Lines ⁴	405		
		Special	XX							Large Dome Translucent ^{1,4}	411		
										Large Dome Rings ⁴	416		
										Semi Dome Translucent ^{1,5}	421		
										Semi Dome Rings ⁵	426		
										Flush Lens w/Tapered Bezel ^{3,4}	626		
										Cap, Black (F1C) Translucent ⁵	441		
										Cap, Black (F1C) Transparent ⁵	443		



White is Translucent
Clear is Transparent

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Translucent Lens is not recommended for use with LED
2. Specify LED Color if applicable
3. Polished Bezel only use code 2
4. Bezel required
5. Bezel not available

31

- Snap fits into 0.50" panel hole
- Body and lens are one piece design
- LED, incandescent, and neon illumination
- Splashproof

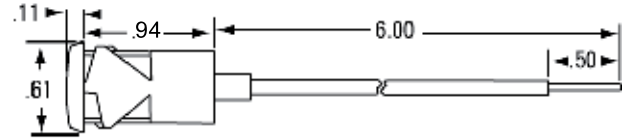
SPECIFICATIONS

Body Material: Polycarbonate
 Lens Material: Polycarbonate
 Wire Gauge: 20 ga.

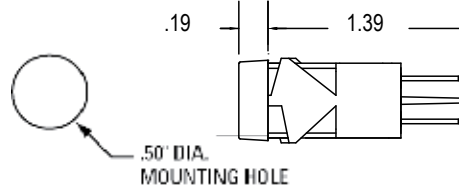
Wire Strip: 1/2"
 Panel Thickness: 0.040" to 0.110"
 Certifications: See Page 1



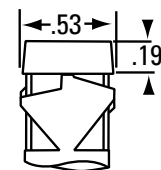
31 with 57 lens



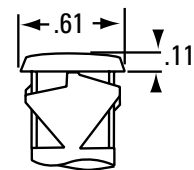
31 with 59 lens



Series	Lamp			Termination		Base		Bezel		Lens			
XX	XX			-	X	-	X	-	X	-	XXX	X	0
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Code
31	2	LED	10	6" Wire	1	N/A	0	None	0	Semi-Dome Rings	576	Red	1
	6	LED	11	.187 Tabs	3			Chrome ²	1	Semi-Dome Rings w/ Bezel	586	Amber	2
	14	LED	12	.250 Tabs	4					Cylinder Rings	596	Clear ¹	3
	28	LED	13	Special	X							Green	4
												Blue	5
	6	INCAND	32										
	14	INCAND	35										
	28	INCAND	39										
	125	NEON	50										
	250	NEON	52										
		Special	XX										



Lens 59



Lens 57 & 58

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

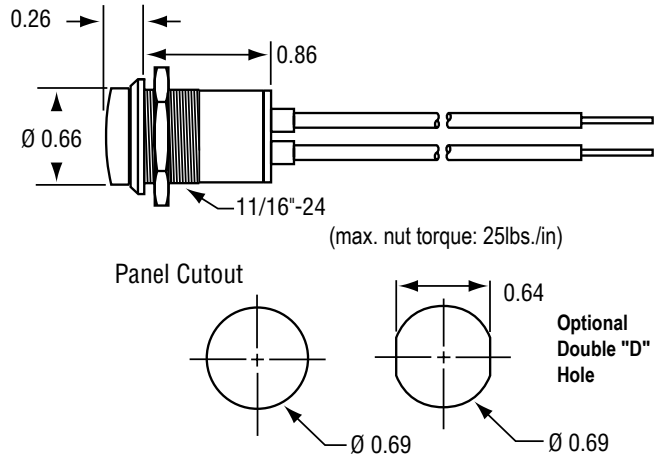
1. Specify LED Color if applicable
2. Available with lens 58 only

65

- Threaded mount
- LED cluster lighting
- Daylight visible
- Splashproof design
- Supplied w/ hex nut, lockwasher, and gasket

SPECIFICATIONS

Body Material:	Nylon	Wire Strip:	1/2"
Lens Material:	Polycarbonate	Panel Thickness:	0.050" to 0.25"
Wire Gauge:	20 ga.	Certifications:	See Page 1

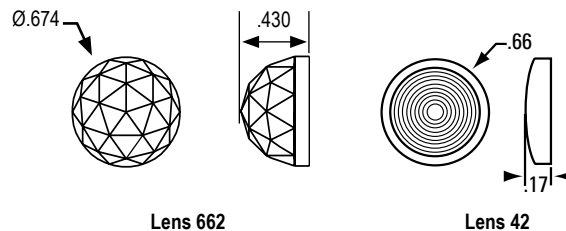


Series	Lamp	Termination	Base	Bezel	Lens
XX	XX	X	X	X	XXX
65	Voltage Type Code 14 LED 12 28 LED 13 125 LED 15 ¹	Style Code 6" Wire 1 .187 Tabs 3 .250 Tabs 4	Color Code White 1 Black 2	Finish Code None 0	Style Code Color Code Semi-Dome Translucent 421 Red 1 Semi-Dome Rings 426 Amber 2 Semi-Dome Rings w/ Diffuser 42A Clear ¹ 3 ^{2,3} Faceted Dome Translucent ⁶ 661 Green 4 Faceted Dome 662 Blue 5 Faceted Dome w/ Diffuser 66A White 6 ⁴ Yellow 8 ⁵

White is Translucent
Clear is Transparent

LED Light Output (mcd)

Red	10k typ.
Green	15k typ.
Blue	7k typ.
White	12k typ.
Yellow	8k typ.



Lens 662

Lens 42

ADDITIONAL OPTIONS AVAILABLE:

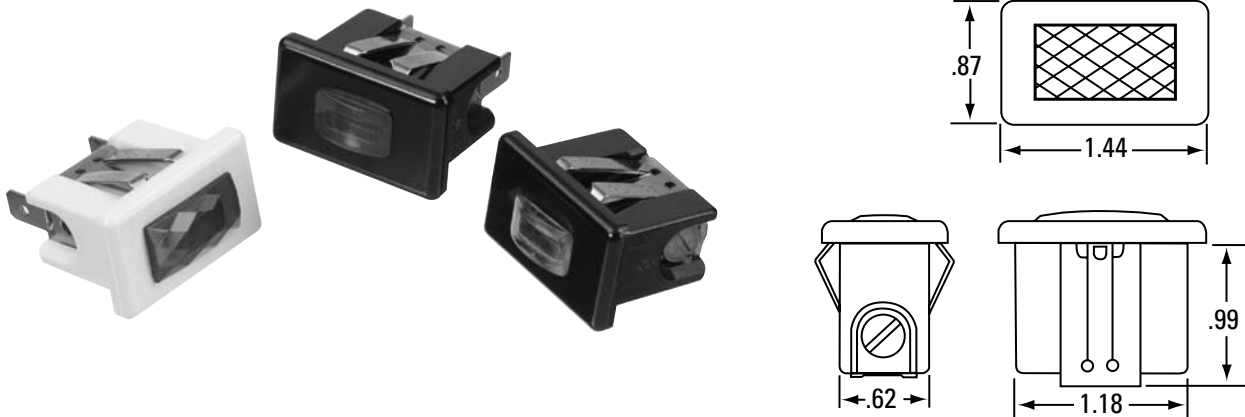
Contact Factory

1. Reduced Intensity
2. Transparent
3. Specify LED color for clear lens
4. Translucent only
5. Lens 42 only
6. White Only

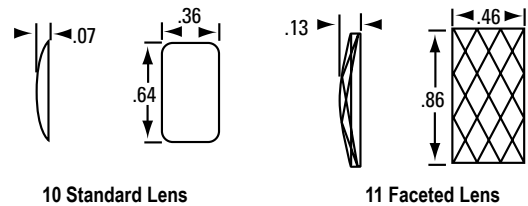
- Snap fits into 1.200" x .640" panel cutout
- Neon & incandescent illumination
- Two lens styles available
- Suggested for High Temperature applications
- Two termination styles available

SPECIFICATIONS

Body Material: Phenolic
 Lens Material: Polycarbonate
 Panel Thickness: 0.045" to 0.065"
 Certifications: See Page 1



Series	Lamp			Termination		Base		Bezel		Lens			
XX	XX			-	X	-	X	X	-	XXX	X	0	
13	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Code
	6	LED	32	.250 Tabs	4	White	1	None	0	Standard Plain	102	Red	1
	14	LED	35	Screws	6	Black	2			Faceted Plain	112	Amber	2
	28	LED	39			Brown	3					Clear	3
												Green	4
												Blue	5
	125	NEON	50										
	250	NEON	52										
		Special	XX										



ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

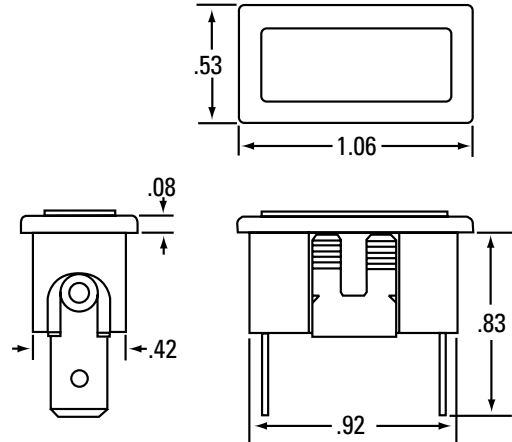
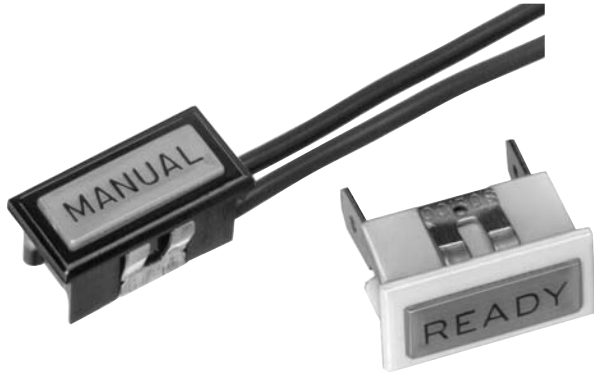
12

- Snap fits into 0.940" x 0.440" panel cutout
- Incandescent and neon illumination
- Dummy (hole plugs) available

SPECIFICATIONS

Body Material: Polycarbonate
 Lens Material: Polycarbonate
 Wire Gauge: 18 ga.

Panel Thickness: 0.031" to 0.093"
 Certifications: See Page 1



Series		Lamp			Termination		Base		Bezel		Lens			
XX		XX			-	X	-	X	X	-	XXX	X	0	
	12	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain
		N/A	DUMMY	00	N/A	0	White	1	None	0	Rectangular Translucent	471	Red	1
		6	INCAND	32	6" Wire	1	Black	2	Black ¹	3	Rectangular Diamond	473	Amber	2
		14	INCAND	35	.187 Tabs	3							Clear	3
		28	INCAND	39	.250 Tabs	4							Green	4
					Special	X							Blue	5
		125	NEON	50									White	6
		250	NEON	52									Black	7
			Special	XX									Color	Marked
													Red	A
													Amber	B
													Clear	C
													Green	D
													Blue	E
													White	F

White is Translucent
 Clear is Transparent

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Metal Bezel

36, 37, 39, 40

Contact Factory:

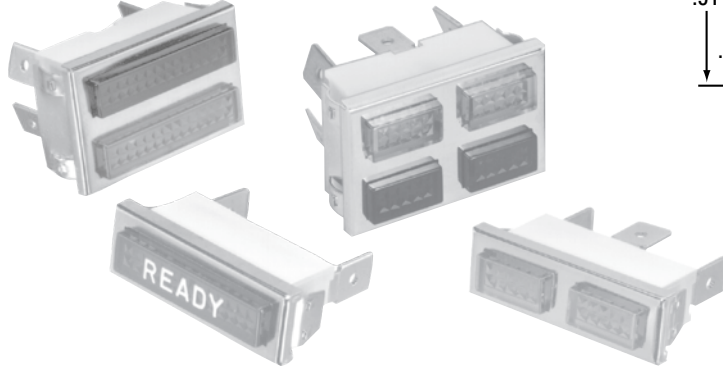
To be discontinued; limited availability

SPECIFICATIONS

Body Material:	Nylon	Wire Gauge:	18 ga.
Lens Material:	Polycarbonate	Panel Thickness:	0.030" to 0.090"
Bezel Material:	Plated Steel	Certifications:	See Page 1

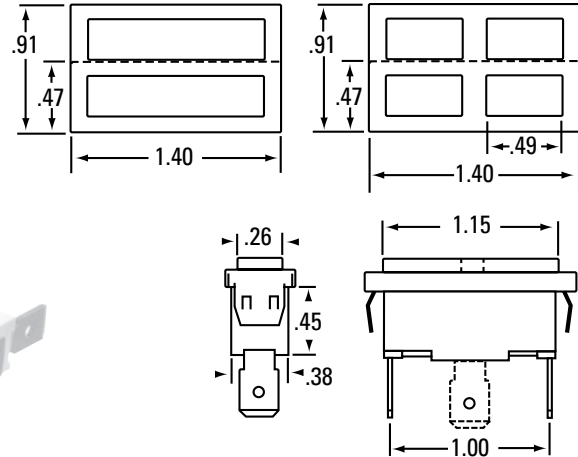
37 Contact Factory

40 Contact Factory




36 Discontinued

39 Discontinued

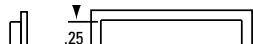


Series	Lamp		Termination		Base		Bezel		Lens					
XX	XX		-	X	-	X		X		XXX		X	X	
	<u>Voltage</u>	<u>Type</u>	<u>Code</u>	<u>Style</u>	<u>Code</u>	<u>Color</u>	<u>Code</u>	<u>Finish</u>	<u>Code</u>	<u>Style</u>	<u>Code</u>	<u>Color</u>	<u>Plain</u>	
36	6	INCAND	32	6" Wire	1	White	1	Chrome	2	36 & 37 Series Lenses		Red	1	
37	14	INCAND	35	.187 Tabs	3			Black	3			521	Amber	2
39	28	INCAND	39	.250 Tabs	4							523	Clear	3
40				Solder	5							531	Green	4
	125	NEON	50	Special	X							532	Blue	5
	250	NEON	52									533	White	6
		Special	XX								534	<u>Color</u>	<u>Marked</u>	
										39 & 40 Series Lenses		Red	A	
												301	Amber	B
												303	Clear	C
												304	Green	D
													Blue	E
												White	F	
											<u>Series</u>	<u>Code</u>		
											37	Repeat selection from		
											40	lens color choices above		
												Consult factory		

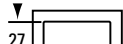
Lens 52

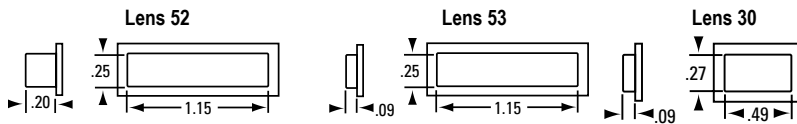


Lens 53



Lens 30





Panel Cutout:
36/39 - 1.280" x .375"
37/40 - 1.280" x .812"

Lens colors specified
left to right and / or
top to bottom

White is Translucent
Clear is Transparent

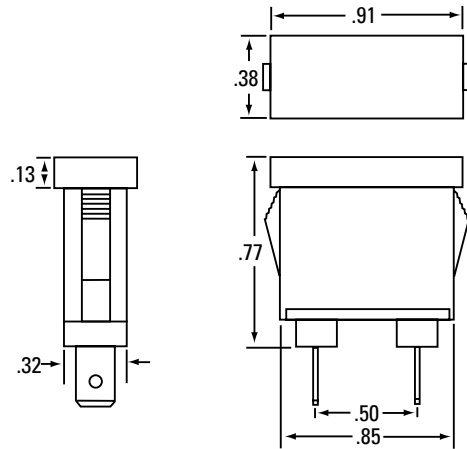
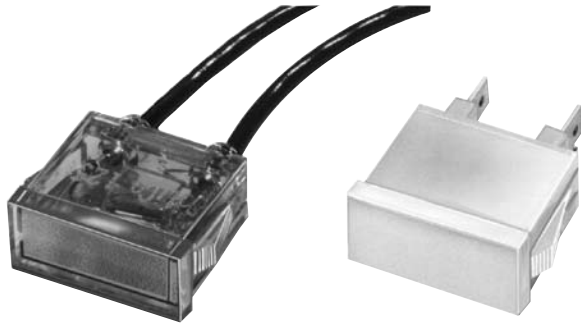
ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

- Snap fits into .330" x .865" panel cutout
- Body and lens are one piece design
- Incandescent and neon illumination

SPECIFICATIONS

Body Material:	Polycarbonate	Wire Strip	1/2"
Lens Material:	Polycarbonate	Panel Thickness:	0.025" to 0.125"
Wire Gauge:	18 ga.	Certifications:	See Page 1



Series		Lamp		Termination		Base		Bezel		Lens			
XX		XX		- X		- X		X		- XXX		X 0	
32	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain
	6	INCAND	32	6" Wire	1	N/A	0	N/A	0	Rectangular Translucent	171	Red	1
	14	INCAND	35	.187 Tabs	3					Rectangular Frost	174	Amber	2
	28	INCAND	39	Special	X							Clear	3
												Green	4
												Blue	5
	125	NEON	50									White	6
	250	NEON	52										
		Special	XX										
												Color	Marked
												Red	A
												Amber	B
												Clear	C
												Green	D
												Blue	E
												White	F

White is Translucent
Clear is Transparent

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

33, 34

- Snap fits into .375" x 1.28" panel cutout
- Incandescent and neon illumination
- Many lens styles available
- Dummy (hole plugs) available

SPECIFICATIONS

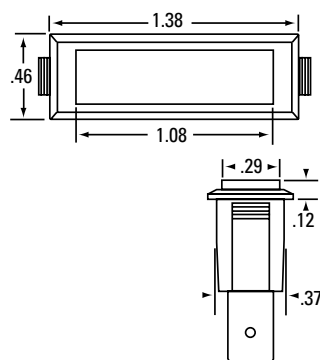
Body Material:	Nylon	Wire Strip	1/2"
Lens Material:	Polycarbonate	Panel Thickness:	0.030" to 0.100"
Wire Gauge:	18 ga.	Certifications:	See Page 1

33

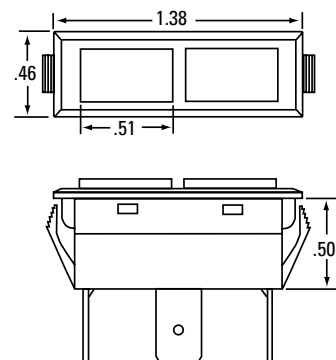


34

33



34

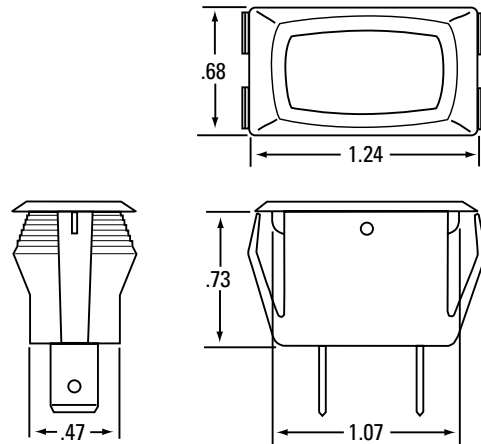


Series	Lamp		Termination		Base		Bezel		Lens						
XX	XX		-	X	-	X	X	-	XXX	X					X
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain		
33	N/A	DUMMY	00	N/A	0	Matte White	4	None	0	33 Series Lenses		Red	1		
34	6	INCAND	32	6" Wire	1	Matte Black	5	Stainless	1		Rectangular Translucent	181	Amber	2	
	14	INCAND	35	.187 Tabs	3						Rectangular Plain	182	Clear	3	
	28	INCAND	39	.250 Tabs	4						Rectangular Diamond	183	Green	4	
				Special	X						Rectangular Frost	184	Blue	5	
											Rectangular Lines	185	White	6	
	125	NEON	50									Black	7		
	250	NEON	52							34 Series Lenses					
		Special	XX								Rectangular Translucent	191	Red	A	
											Rectangular Diamond	193	Amber	B	
											Rectangular Frost	194	Clear	C	
											Rectangular Lines	195	Green	D	
												Blue	E		
												White	F		

- Snap fits into .550" x 1.125" panel cutout
- LED, Incandescent, and neon illumination
- Matte Finish
- Dummy (hole plugs) available

SPECIFICATIONS

Body Material: Nylon
 Lens Material: Polycarbonate
 Panel Thickness: 0.025" to 0.187"
 Certifications: See Page 1



Series		Lamp		Termination		Base		Bezel		Lens				
XX		XX		-	X	-	X	X	-	XXX		X	0	
15	<u>Voltage</u>	<u>Type</u>	<u>Code</u>	<u>Style</u>	<u>Code</u>	<u>Color</u>	<u>Code</u>	<u>Finish</u>	<u>Code</u>	<u>Style</u>	<u>Code</u>	<u>Color</u>	<u>Plain</u>	
	N/A	DUMMY	00	N/A	0	White	1	N/A	0	Flush Translucent¹	121	Red	1	
	2	LED	10	.250 Tabs	4	Black	2			Flush Frost	124	Amber	2	
												Clear²	3	
	6	INCAND	32									Green	4	
	14	INCAND	35									Blue	5	
	28	INCAND	39									White	6	
												Black	7	
	125	NEON	50											
	250	NEON	52									<u>Color</u>	<u>Marked</u>	
	Special	XX									Red	A		
											Amber	B		
											Clear²	C		
											Green	D		
											Blue	E		
											White	F		

16, 17

- Snap fits into .830 x 1.450" panel cutout
- Incandescent and neon illumination
- Single or dual lenses
- Dummy (hole plugs) available

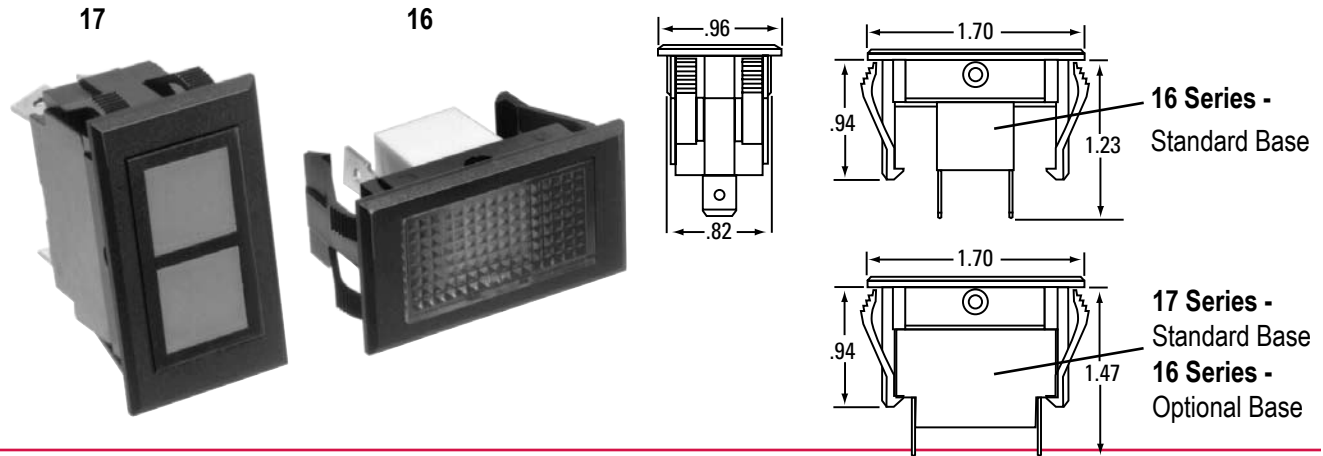
SPECIFICATIONS

Body Material:
Lens Material:
Wire Gauge

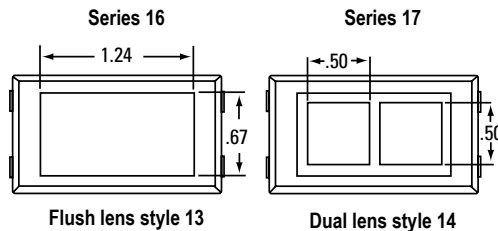
Nylon
Polycarbonate
18 ga.

Panel Thickness:
Certifications:

0.030" to 0.240"
See Page 1



Series	Lamp	Termination	Base	Bezel	Lens
XX	XX	X	X	X	XXX
16	Voltage	Type	Code	Style	Code
17	N/A	DUMMY	00	N/A	0
	6	INCAND	32	.187 Tabs	3
	14	INCAND	35	.250 Tabs	4
	28	INCAND	39	Solder	5
	125	NEON	50		
	250	NEON	52		
	Special	XX			
				Color	Code
				Std.	0
				Optional	X
				Finish	Code
				Matte Black	5
				Matte White	6
				Style	Code
				Single Translucent	131
				Single Diamond	133
				Single Fine Diamond	137
				Dual Translucent	141
				Dual Fine Diamond	147
				Color	Plain
				Red	1
				Amber	2
				Clear	3
				Green	4
				Blue	5
				White	6
				Black	7
				Color	Marked
				Red	A
				Amber	B
				Clear	C
				Green	D
				Blue	E
				White	F
				Series	Code
				16	0
				17	Repeat selection from lens color choices above
					White is Translucent
					Clear is Transparent



ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

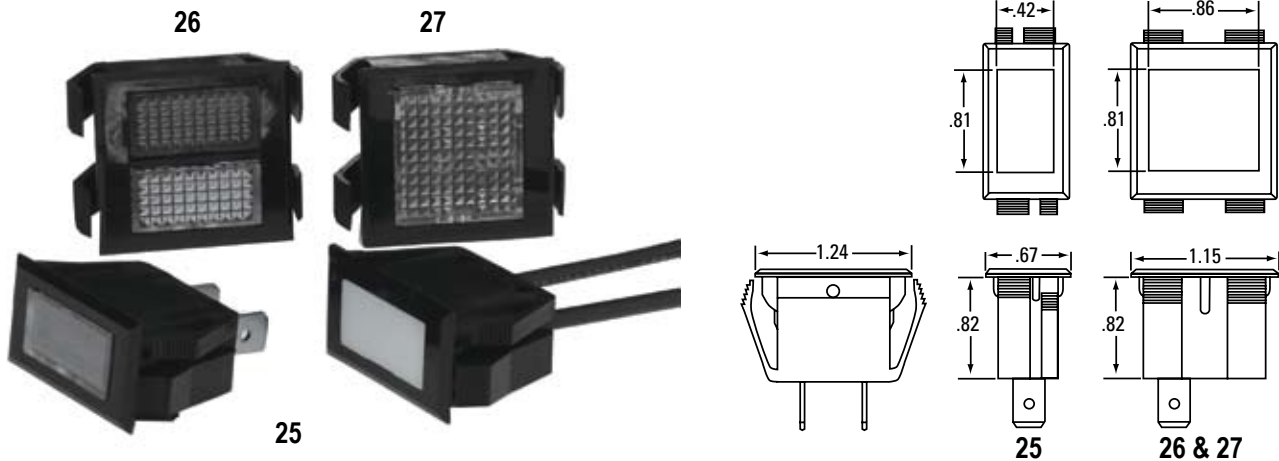
25, 26, 27

- Snap fits into panel cutout
- Incandescent and neon illumination
- Single or dual lenses, many combinations available
- Dummy (hole plugs) available

SPECIFICATIONS

Body Material:	Nylon
Lens Material:	Polycarbonate
Wire Gauge	18 ga.

Panel Thickness: 0.020" to 0.250"
 Certifications: See Page 1



Series		Lamp		Termination		Base		Bezel		Lens					
XX		XX		-	X	-	X	X	-	XXX		X	X		
		Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain	
25		N/A	DUMMY	00	N/A	0	Matte White	4	None	0	Rectangular Translucent	451	Red	1	
26		6	INCAND	32	6" Wire	1	Matte Black	5	Stainless ¹	1	Rectangular Diamond	453	Amber	2	
27		14	INCAND	35	.250 Tabs	4			Black ¹	3	Rectangular Line	455	Clear	3	
		28	INCAND	39	Solder	5					Square Translucent	461	Green	4	
					Special	X					Square Diamond	463	Blue	5	
		125	NEON	50							Square Lines	465	White	6	
		250	NEON	52									Black	7	
			Special	XX									Color	Marked	
													Red	A	
													Amber	B	
													Clear	C	
													Green	D	
													Blue	E	
													White	F	
Panel Cutout:											Series	Code			
25	.550" x 1.125"										25 & 27	0			
26	1.000" x 1.125"										26	Repeat selection from			
27	1.000" x 1.125"											lens color choices above			

White is Translucent
Clear is Transparent

ADDITIONAL OPTIONS AVAILABLE:

1. Series 25 and 26 only

Contact Factory

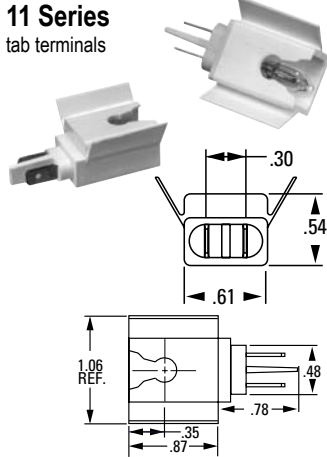
10, 11, & 60

- Lens mounts from front, indicator from behind panel
- Incandescent and neon illumination
- 10 Series has wire leads only
- 11 Series has tab terminals only
- 60 Series available with wire leads or tab terminals

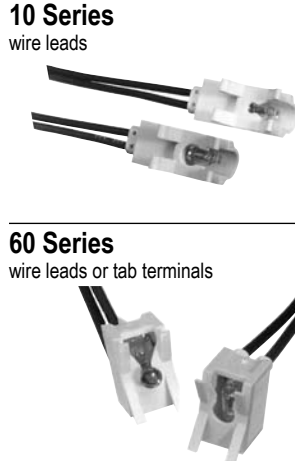
SPECIFICATIONS

Body Material:	Nylon	Wire Strip:	1/2"
Lens Material:	Polycarbonate	Panel Thickness:	0.031" to 0.78" ²
Wire Gauge	Series 10 - 20 ga. Series 60 - 18 ga.	Certifications:	See Page 1

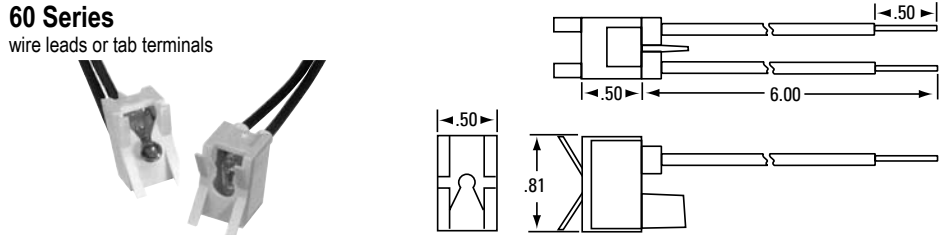
11 Series tab terminals



10 Series wire leads

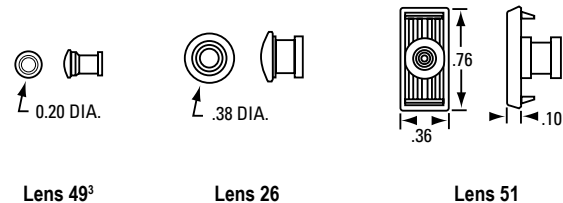


60 Series wire leads or tab terminals



Series	Lamp		Termination		Base		Bezel		Lens				
XX	XX		X		X		X		XXX		X	0	
10	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Code
11	6	INCAND	32	6" Wire ³	1	N/A	0	N/A	0	.200 Dia Rings ³	496	N/A	0
60	14	INCAND	35	.187 Tabs ⁴	3					.375 Dia Rings	266	Red	1
	28	INCAND	39	.250 Tabs ⁴	4					Rectangular Lines	515	Amber	2
				Special	X					No Lens ¹	490	Clear	3
	125	NEON	50							No Lens ¹	260	Green	4
	250	NEON	52							No Lens ¹	510	Blue	5
		Special	XX										

Lens 49 mounting hole .180" dia
Lens 26 mounting hole .312" dia.
Lens 51 mounting hole .300" x .690"



ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

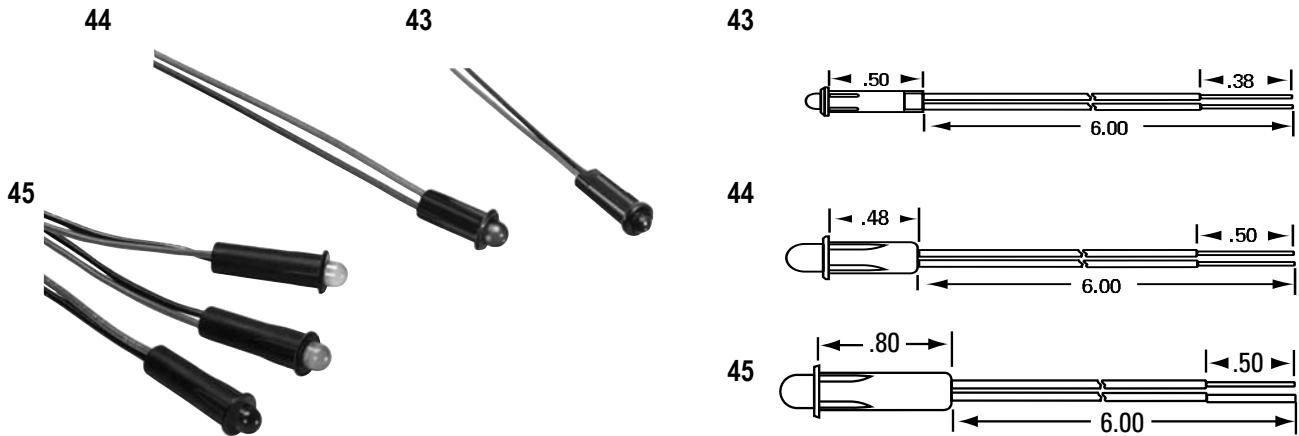
1. If Ordered without lens, lens style must still be specified, Pattern and color are "0".
2. Nominal range. Alternate lenses (style 26) are available to fit thicker panels. Please consult factory.
3. Not Available on Series 11
4. Not Available on Series 10

43, 44, 45

- Series 43 - 3mm size LED
- Series 44 & 45 - 5mm size LED
- Press fit

SPECIFICATIONS

Body Material: Nylon
 Wire Gauge: Series 43 - 26 ga., 3/8" strip
 Series 44/45 - 24 ga., 1/2" strip
 Certifications: See Page 1



Series		Lamp		Termination		Base		Bezel		Lens			
XX		XX		-	X	-	X	X	-	XXX		X	0
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Code
43	2	LED	10	6" Wire	1	Black	2	N/A	0	Diffused ²	010	Red	1
44	6	LED ¹	11	Special	X					Color Clear ²	030	Amber	2
45	14	LED ¹	12							Water Clear ²	050	Green	4
	28	LED ¹	13									Blue	5 ⁴
	125	LED ^{1,3}	15									White	6
	250	LED ^{1,3}	16									Yellow	8
		Special	XX										

43 Series Mounting hole 0.173" dia
 44 & 45 Series Mounting hole 0.250" dia

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

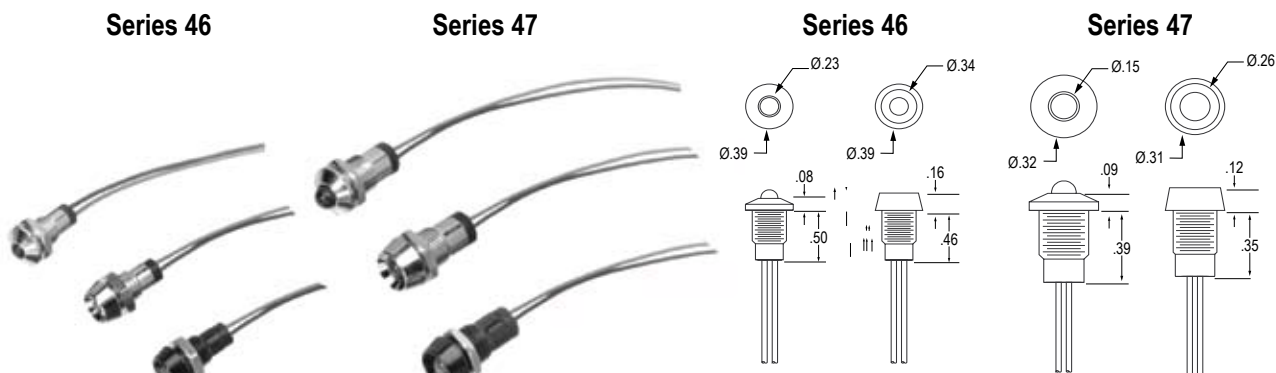
1. For voltages greater than 2V the appropriate external resistor will be provided in the lead.
2. Subject to availability.
3. Not available on Series 43.
4. Water clear blue only

46, 47

- 46 - 3mm or 47 - 5mm LED
- Threaded body - secured with lockwasher & nut
- Black or chrome finish

SPECIFICATIONS

Body Material:	Brass (Plated)
Wire Gauge	Series 46 - 26 ga. Series 47 - 24 ga.
Wire Strip:	3/8"



Series		Lamp		Termination		Base		Bezel		Lens					
XX		XX		-	X	-	X	X	-	XXX		X		0	
	<u>Voltage</u>	<u>Type</u>	<u>Code</u>	<u>Style</u>	<u>Code</u>	<u>Color</u>	<u>Code</u>	<u>Finish</u>	<u>Code</u>	<u>Style</u>	<u>Code</u>	<u>Color</u>	<u>Code</u>		
46	2	LED	10	6" Wire	1	Dome	7	Chrome	2	Diffused ²	010	Red	1		
47	6	LED ¹	11	Special	X	Recess	8	Black	3	Color Clear ²	030	Amber	2		
	14	LED ¹	12							Water Clear ²	050	Green	4		
	28	LED ¹	13									Blue	5 ³		
		Special	XX									White	6		
												Yellow	8		

Series 46 - 3mm size mounting hole .24"

Series 47 - 5mm size mounting hole .31"

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

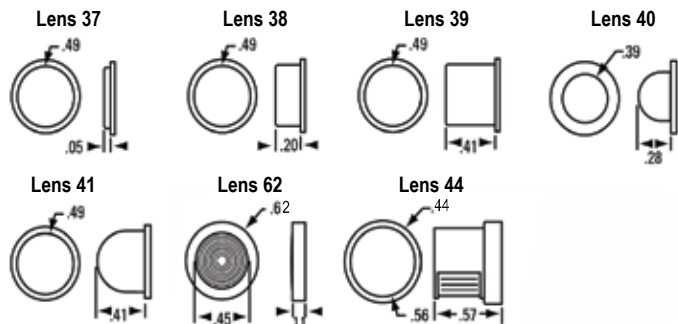
1. Voltages greater than 2V require components in lead wire(s)
2. Subject to availability
3. Water clear blue only

68

- Panel Thickness: 0.030" to 0.093"
 Certifications: See Page 1



Series	Lamp		Termination		Base		Bezel		Lens				
XX	XX		-	X	-	X		X	-	XXX		X	0
	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Plain
68	2	LED	10	6" wire	1	N/A	0	None	0	.09 Cylinder Translucent ^{1,4}	371	Red	1
	6	LED	11	.187 Tabs	3			Stainless	1	.09 Cylinder Diamond ⁴	373	Amber	2
	14	LED	12	.250 Tabs	4			Chrome	2	.09 Cylinder Rings ⁴	376	Clear ²	3
	28	LED	13					Black	3	.25 Cylinder Translucent ^{1,4}	381	Green	4
										.25 Cylinder Diamond ⁴	383	Blue	5
	6	INCAND	32							.25 Cylinder Rings ⁵	386	White	6
	14	INCAND	35							.46 Cylinder Translucent ^{1,4}	391		
	28	INCAND	39							.46 Cylinder Diamond ⁴	393		
										.46 Cylinder Rings ⁴	396	Color	Marked
	125	NEON	50							Small Dome Translucent ^{1,4}	401	Red	A
	250	NEON	52							Small Dome Lines ⁴	405	Amber	B
	480	NEON	54							Large Dome Translucent ^{1,4}	411	Clear ²	C
	600	NEON	55							Large Dome Rings ⁴	416	Green	D
		Special	XX							Semi Dome Translucent ^{1,5}	421	Blue	E
										Flush Lens w/Tapered Bezel ^{3,4}	626	White	F
Lens 37	Lens 38	Lens 39	Lens 40							Cap, Black (F1C) Translucent ⁵	441		
										Cap, Black (F1C) Transparent ⁶	443		



1. Translucent lens is not recommended for use with LED
2. Specify LED color if applicable
3. Polished bezel only use code 2
4. Bezel required
5. Bezel not available

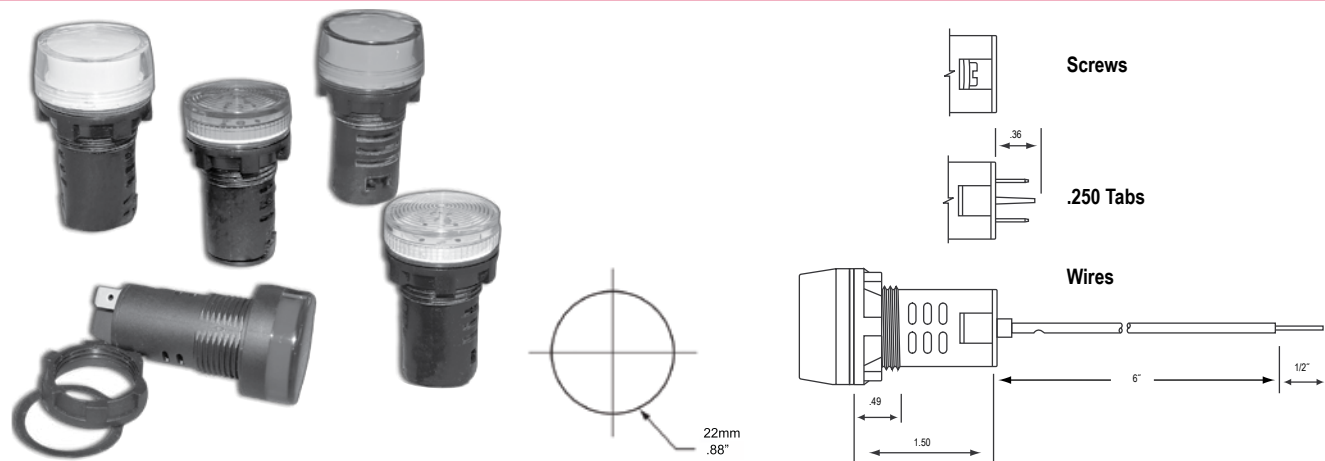
NEW

KF

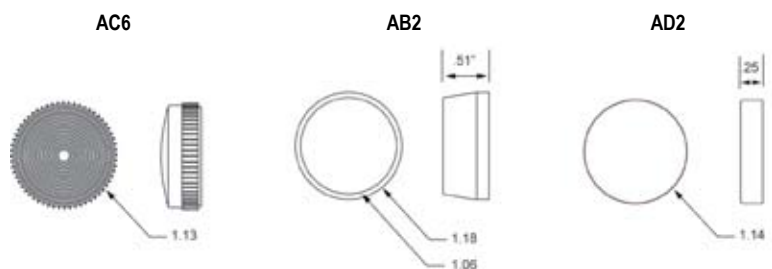
- Mounts in 22mm panel hole
- Hex nut + panel seal supplied
- Three lens styles available

SPECIFICATIONS

Housing:	PBT w/ 20% glass	Hex Nut:	Polycarbonate
Lens:	Polycarbonate	Certifications:	See Page 1
Diffuser:	POM (polyacetal)		



Series	Lamp	Termination	Base	Bezel	Lens
XX	XX	X	X	X	XXX
KF	Voltage 14 28 125 250 Type LED LED LED ¹ LED ¹ Special Code 12 13 XX	Style 6" Wire .250 Tabs ¹ Clamp Screws Code 1 4 6	Color Black Code 2	Finish None Code 0	Style Tapered (w/Diffuser) Semi-Dome, Rings Flat Top (w/Diffuser) Code AB2 AC6 AD2 Color Red Green Blue White Yellow Code 1 4 5 6 8



ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Contact Factory

NEW

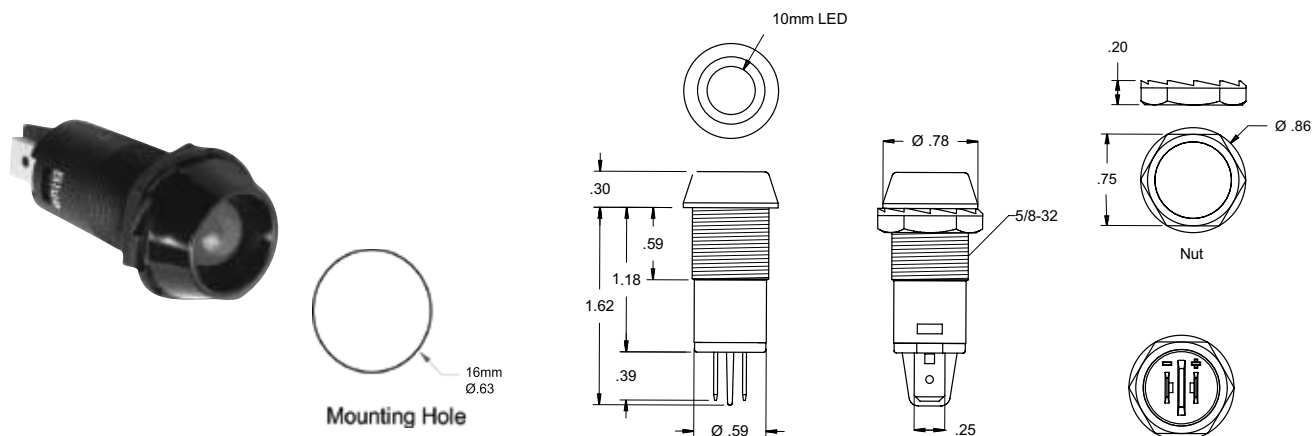
KE

- 16mm mounting hole
- 10mm ultra-bright LED
- Supplied with nylon hex nut

SPECIFICATIONS

Body Material: Nylon 66 (UL 94V-2)
Nut Material: Nylon 66 (UL 94V-2)
Terminal Material: Nickel over Brass

Operating Temp: -20°C to +85°C
Certifications: See Page 1



Series		Lamp		Termination		Base		Bezel		Lens			
XX		XX		-	X	-	X	X	-	XXX		X	0
KE	Voltage	Type	Code	Style	Code	Color	Code	Finish	Code	Style	Code	Color	Code
	14	LED	12	.250 Tabs	4	N/A	0	Black	3	Translucent	010	Red	1
	28	LED	13							Water Clear ²	050	Amber	2
	125	LED ¹										Green	4
												Blue	5
												White	6
												Pure White	P

LED Viewing Angle 120°

LED Light Output (mcd)

Red	250
Amber	200
Green	700
Blue	300
White	500
P White	4000

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

1. Contact Factory
2. Pure White Only

NEW

Flex-Lite

- Mounting:
 - Unsealed - 3M double back tape
 - Sealed - Mounting/Termination accessories available
- All measurements in inches
- Cut length every 1.94"

SPECIFICATIONS

Operating Temp: -40°C to +85°C
Unsealed: Flexible PC Board
Surface Mount Components
Sealed: Housing - Silicone Rubber
Over Flex Circuit



1 Color Sealed



1 Color Unsealed



RGB Sealed



RGB Unsealed

Series	Voltage		Style		Leads		Color		Length		Packaging	
XX	XX		-	X	-	X	X	-	XXX		X	0
RF	Voltage	Type	Code	Style	Code	Length	Code	Color	Code	Length In Inches	Type	Code
	14	LED	12	Unsealed	U	6 inch	L	Red	1	192 (1 Reel)	Reel	R
	28	LED	13	Sealed	S			Green	4		Cut	C
								Blue	5		Assembly	A
								White	6			
								Yellow	8			
								Pure White	P			
								RGB	M			

Contact Factory for cutting
and assembly instructions

See Next Page

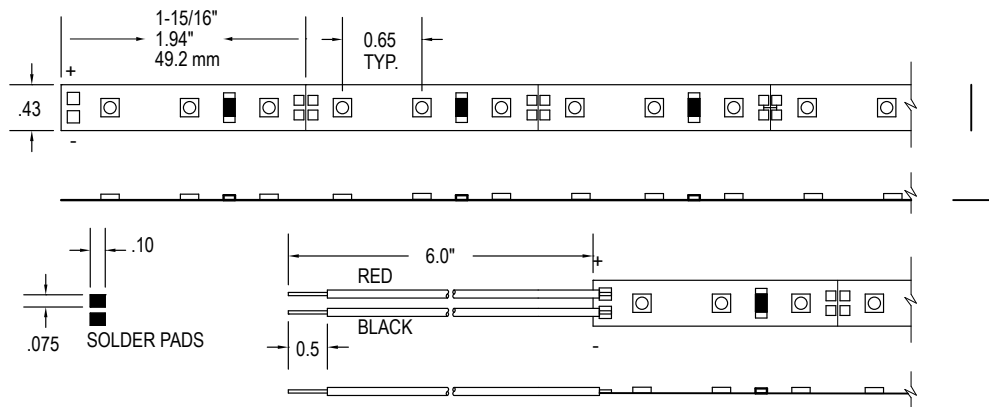
ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

NEW

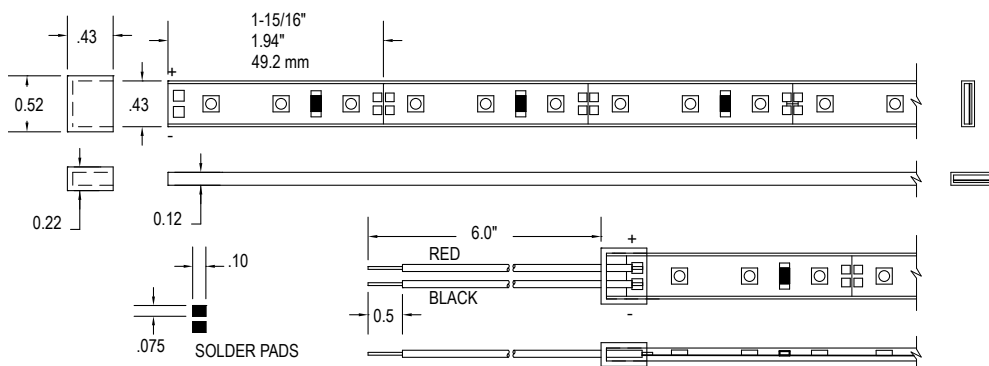
Flex-Lite

Flex-Lite Unsealed



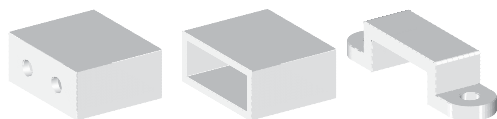
Tolerance $\pm \frac{1}{2}$ "

Flex-Lite Sealed



Tolerance $\pm \frac{1}{2}$ "

Single Color Accessories

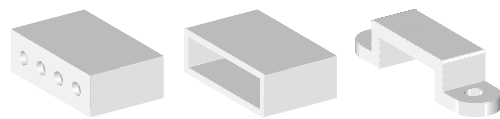


RG-WIRCAP

RG-ENDCAP

RG-MTGUNO

RGB Accessories



RG-WIRRGB

RG-ENDRGB

RG-MTGRGB

LED Viewing Angle 120°
LED Light Output (mcd)

Red	250	Blue	300
Amber	200	White	500
Green	700	Pure White	4000

See Previous Page

ADDITIONAL OPTIONS AVAILABLE:

Contact Factory

Lamps & LEDs

Neon Lamps (AC)

Neon lamps are constructed of a glass envelope, containing two electrodes and a mixture of inert gases. When a voltage is applied, above the "breakdown" voltage, the gas between the electrodes ionizes, creating the familiar orange-red "glow". They are rugged, reliable, cost effective and generate little heat. While light output is lower than incandescent lamps, neons are the most widely used light sources for indicators used at line voltages. Normally lighting with a red-orange glow, neons are also available in both green and blue by using special gasses and phosphorescent coatings inside the glass envelope.

All neon lamps require a current limiting resistor in series with the lamp. The value of this resistor is determined by three criteria: the manufacturer's specified operating characteristics, the desired brightness, and the required lamp life. While neon lamps have a typical life of 25,000 hours, this is directly proportional to the operating current. Higher current gives greater brightness, but shorter life. Although suited to both AC and DC operation, life when operated on DC is approximately 60% that of AC operation.

Catalog Number	Color	Volts	Life Hours
50	Amber	125V	25,000
52	Amber	250V	25,000
50	Green	125V	15,000
52	Green	250V	15,000
50	Blue	125V	10,000
52	Blue	250V	10,000

Please Note: All neon-illuminated indicator lights ordered with a green lens will be provided with a green neon lamp; blue lenses will be provided with a blue neon lamp.

Incandescent Lamps (AC/DC)

Incandescent lamps are best known for their bright white light output. When an electrical current is passed through the filament, it glows "white hot" creating light. The trade-off in incandescent lamps is their susceptibility to physical shock and vibration, as the filament becomes very fragile at its elevated operating temperatures. We recommend mounting the indicator away from any vibration source, and / or cushioning the lamp within the indicator assembly with a resilient potting compound.

Catalog Number	Volts	Size	Amps	Life Hours
32	6.3V	T - 1 $\frac{3}{4}$.04	50,000
33	10V	T - 1 $\frac{3}{4}$.04	5,000
35	14V	T - 1 $\frac{3}{4}$.08	50,000
39	28V	T - 1 $\frac{3}{4}$.04	25,000

Incandescent lamps can also generate significant heat, which should be considered in your application. Similar to neon lamps, operating an incandescent lamp at less than rated current will significantly increase its useful life. Using a 14 volt incandescent lamp in a 12 volt circuit will reduce the light output by about 30%, but will increase its life by a factor of four.

LEDs (DC)

Light Emitting Diodes, or LEDs as they are more commonly known, are cousins to the semiconductor devices like transistors and integrated circuits, and are fabricated with similar processes. The color of the LED is determined by the combination of materials used during the fabrication process. LED's are now available in a wide variety of colors including white, and in intensities approaching that of incandescent lamps. Bi-color LEDs are available in several color combinations.

LEDs are available in three primary styles; water clear lens for highest brightness but smallest viewing angle, color clear lens for increased viewing angle at a somewhat reduced light output, and color diffused lens for the widest viewing angle at greater reduction in light output. Light output for LEDs is measured in millicandellas (mcd) and is specified by minimum and typical values.

LEDs are DC (direct current) devices, although SoLiCo can provide a number of our products configured to use LEDs as AC (alternating current) devices.

The technology of LEDs is evolving very rapidly these days, to the point that any specifics we print in our catalog may be obsolete or superseded almost immediately.

Please contact us to discuss your specific LED indicator requirements. We have the experience and technical knowledge to find your solution.

Material Specifications

High-Temperature Nylon (bases)
Polycarbonate (lenses and bases)

Operating Temperature

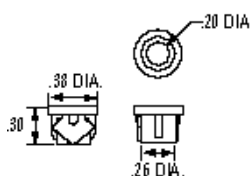
140°C
135°C

UL Rating

94V-2
94V-2

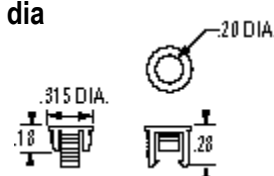
LED Mounting Clips

T – 1 ¾ Mounting Hole .312" dia



Part Number S-501

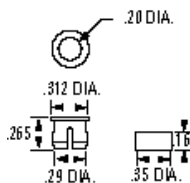
T – 1 ¾ Mounting Hole .250" dia



Part Number S-503

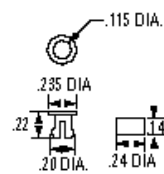
T – 1 ¾ Mounting Hole .250" dia

Clip mounts from panel front,
LED from rear for bottom only.



Part Number S-506

T – 1 Mounting Hole .173" dia



Part Number S-301

Imprinting

Hot Stamping

Hot stamping uses a heated metal die, engraved with the required legend, under pressure to force ink into a plastic surface, offering excellent durability. Hot stamping is normally done in black or white, and is best suited to text and simple line art. If no ink color is specified, hot stamping will be done in black, and the orientation of the imprint will be horizontal.

Hot stamp charges are "per imprint", which is defined as a marking applied in one operation. The tooling charge for a Hot Stamp Die (not already available) is \$185.00 per die. Minimum quantity is 100 pieces. A set-up charge of \$35.00 will apply to quantities of less than 500 pieces per legend.

Pad Printing

Pad printing (also known as transfer printing), uses a soft rubber pad to pick up ink from an engraved plate and transfers it to the part to be marked. Pad printing is normally done in black or white, but can be done in any color for which ink is available. If no ink color is specified, white ink will be used. Text and images can be very accurately reproduced with this method. For additional durability in abrasive or high-wear applications, a clear overcoat can be applied over the marking.

Pad print charges are "per hit", which is defined as a marking applied in one operation. The artwork and plate charge for a Pad Print Plate (not already available) is \$185.00. Depending on size and complexity, multiple legends can be accommodated on a single plate, please contact the sales department for details. Minimum quantity is 100 pieces per legend. A set up charge of \$35.00 will apply to quantities of less than 500 pieces.

Marking Orientation

**Horizontal Lens
Horizontal Legend**

HORIZONTAL

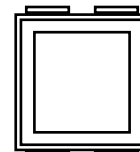
**Vertical Lens
Vertical Legend**

V
E
R
T
I
C
A
L

**Vertical Lens
Horizontal Legend**

HORIZ
PRINT

**Series 27
Standard Orientation**



Marking Department

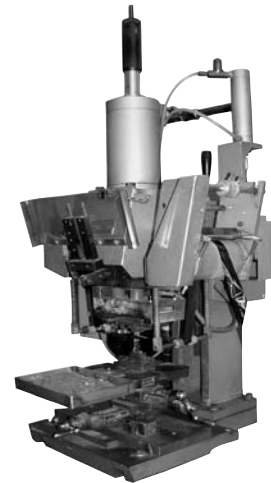
Pad Printing

SoLiCo has the capability of pad printing on almost any of our product surfaces. Pad printing, sometimes referred to as transfer printing, is especially well suited for curved or irregular surfaces. Our equipment can produce high resolution results on convex, concave, and flat caps as well as all lenses and most switch accessories. We can produce a variety of text and custom symbols. If a specific symbol or word is not available we can produce the cliché to accommodate almost any request that can physically fit on the product surface. Standard ink color is white, black is optional, and custom ink colors are available as special purchase options.



Hot Stamp

Hot stamping, while one of the oldest technologies, still offers a cost-effective permanent marking. A heated die, with the image to be marked, and a special foil (ribbon) are pressed onto a plastic surface, depositing the "ink" into the surface. Hot stamping is best suited for text, and low-resolution graphics. As the pigment is actually "melted" into the surface, it provides excellent durability, and good visual contrast.



YAG Laser

SoLiCo's most recent addition to our marking department is our YAG Laser. It is a high-power, high-speed unit with the ability to produce extremely high-resolution graphics. It has a 12" x 12" stage, allowing multiple parts to be marked with a single set-up. Depending on the base material, it is suitable for direct imaging, or using an opaque overcoat, producing a reverse-image style of marking.





Value Added & Custom Lighting Assemblies

SoLiCo offers extensive value added services as well as the ability to design custom assemblies to meet your specific requirements. Pictured here are just a few of the value added products and custom lighting assemblies SoLiCo has produced for our customers.

SoLiCo value added services include, but are not limited to, special length and color wire leads, lead termination, hot stamping and pad printing of legends, custom colored lenses, variety of neon, incandescent, and LED voltages and ratings and the fabrication of wire harnesses. SoLiCo also builds a variety of LED and neon flashers.

SoLiCo excels in the development and production of value-added and custom products with one of the shortest lead times in the industry. Our engineering department uses an advanced 3D CAD system which can provide drawings, via e-mail or fax, to our customers, in order to expedite the design review process of your project.

Call our sales department to discuss what SoLiCo can do for your next lighting project.



Sorenson Lighted Controls
Illuminating Innovation™

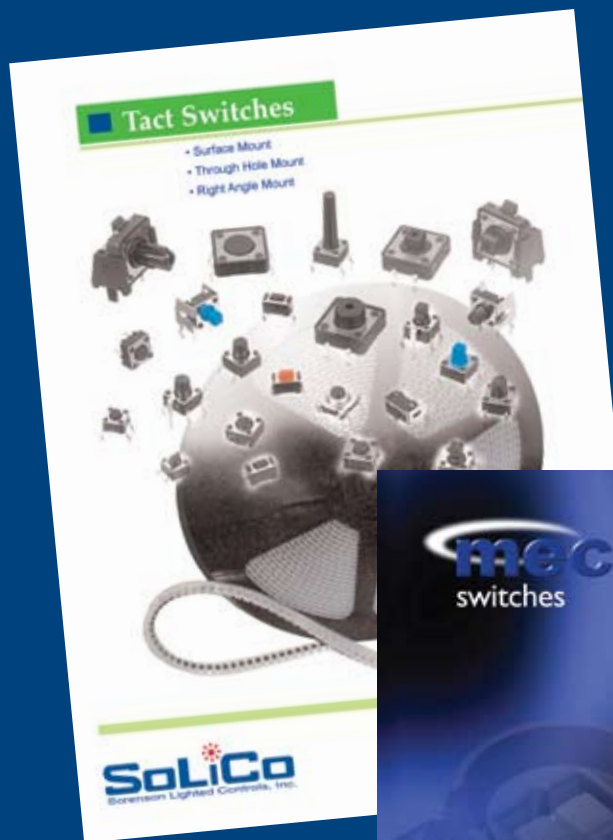
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Call our sales department to discuss what SoLiCo can do for your next lighting project.



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Other SoLiCo Products



Switch Engineering Catalog No. 6



Sorenson Lighted Controls
Illuminating Innovation™

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