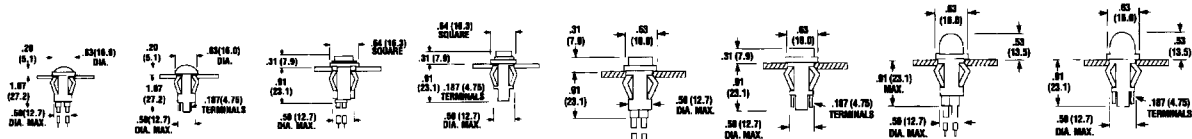




**SERIES 1000 NEON LAMPS**



Series 1030D Series 1030QD Series 1050N Series 1050QN Series 1050C Series 1050QC Series 1050A Series 1050QA

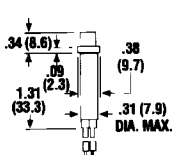
UL file no. 20325. CSA file no. 13346. White nylon housing will snap-fit into a .500-.505" diameter hole in panels .020-.100" thick. Bezel: Stainless steel.

Mfr. No.	Color	VAC
<b>Pilot Lamps with Low-Profile Lenses</b>		
1030D1†	Red	105-125
1030D3†	Amber	105-125
1030D4†	White	105-125
1032D5†*	Green	105-125
1030QD1‡	Red	105-125
1030QD3‡	Amber	105-125
1030QD4‡	White	105-125
1032QD5‡*	Green	105-125
1031D1†	Red	208-250
1031D3†	Amber	208-250
1033D5†	Green	208-250
1031QD1‡	Red	208-250
1031QD3‡	Amber	208-250
1033QD5‡	Green	208-250
<b>Pilot Lamps with Square Lenses</b>		
1050N1†	Red	105-125
1050N3†	Amber	105-125
1050N4†	White	105-125
1052N5†*	Green	105-125
1050QN1‡	Red	105-125
1050QN3‡	Amber	105-125
1050QN4‡	White	105-125
1052QN5‡*	Green	105-125
<b>Pilot Lamps with High-Hat Lenses</b>		
1050C1†	Red	105-125
1050C2†	Clear	105-125
1050C3†	Amber	105-125

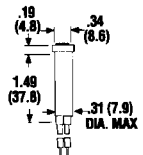
Mfr. No.	Color	VAC
1050C4†	White	105-125
1052C5†	Green	105-125
1050QC1‡	Red	105-125
1050QC2‡	Clear	105-125
1050QC3‡	Amber	105-125
1050QC4‡	White	105-125
1052QC5‡*	Green	105-125
1051C1†	Red	208-250
1051C3†	Amber	208-250
1053C5†	Green	208-250
1051QC1‡	Red	208-250
1051QC3‡	Amber	208-250
1053QC5‡	Green	208-250
<b>Pilot Lamps with Dome Lenses</b>		
1050A1†	Red	105-125
1050A3†	Amber	105-125
1050A4†	White	105-125
1052A5†*	Green	105-125
1050QA1‡	Red	105-125
1050QA2‡	Clear	105-125
1050QA3‡	Amber	105-125
1052QA5‡*	Green	105-125
1051A1†	Red	208-250
1051A3†	Amber	208-250
1053A5†	Green	208-250
1051QA1‡	Red	208-250
1051QA3‡	Amber	208-250
1053QA5‡	Green	208-250

† With wire leads 4.4-4.8" long, stripped .43-.57". ‡ With .187"-.020" tinned brass terminals. \* Incorporates G2B lamp and resistor.

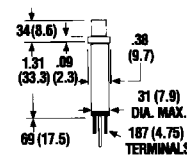
**SERIES 2150, 2110 GLO-DOT MINIATURE NEON PILOT LIGHTS**



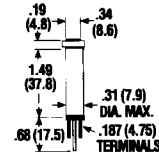
Series 2150A  
High Hat  
Wire Leads



Series 2110A  
Flush Lens  
Wire Leads



Series 2150QA  
High Hat  
Quick Connect



Series 2110QA  
Flush Lens  
Quick Connect

These miniature neon pilot lights are engineered for long service and reliability. Rugged, they are unaffected by shock and vibration. Available in two lens shapes, flush and high-hat. Mounting hole is .31" minimum diam-

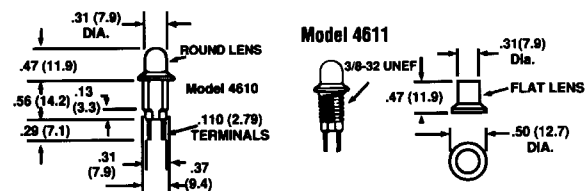
eter. **Average operating life:** 25,000 hours. UL recognized and CSA approved. Supplied with push-on speed nut (SN1287). Supplied with 4.4-4.8" wire terminals, stripped 1/2" or .187"-.020" tinned brass terminals.

Mfr. No.	Color	VAC
2150A1	Red	105-125
2150A3	Amber	105-125
2150A4	White	105-125
2150A2	Clear	105-125
2152A5*	Green	105-125
2110A1	Red	105-125
2110A3	Amber	105-125
2110A4	White	105-125
2110A2	Clear	105-125
2112A5*	Green	105-125
2150QA1	Red	105-125
2150QA3	Amber	105-125
2150QA4	White	105-125
2152QA5*	Green	105-125
2110QA1	Red	105-125
2110QA3	Amber	105-125
2110QA4	White	105-125
2110QA2	Clear	105-125
2112QA5*	Green	105-125
2151A1	Red	208-250
2151A2	Clear	208-250

Mfr. No.	Color	VAC
2151A3	Amber	208-250
2151A4	White	208-250
2153A5*	Green	208-250
2153A6†	Blue	208-250
2111A1	Red	208-250
2111A2	Clear	208-250
2111A3	Amber	208-250
2111A4	White	208-250
2113A5*	Green	208-250
2113A6†	Blue	208-250
2151QA1	Red	208-250
2151QA3	Amber	208-250
2151QA4	White	208-250
2153QA5*	Green	208-250
2111QA1	Red	208-250
2111QA2	Clear	208-250
2111QA3	Amber	208-250
2111QA4	White	208-250
2113QA5*	Green	208-250

\* Incorporates G2B lamp and resistor. † Incorporates T2B lamp and resistor.

## TINY-MITE INDICATOR LIGHT ASSEMBLIES



**Ordering Information:** Complete assembly consists of socket, lens and lamp. Each sold separately. **Mounting:** No. 4610 (without thread) supplied with push-on speednut - can be keyed to prevent rotation. No. 4611 (threaded) supplied with zinc finish hex nut and internal tooth lockwasher. **Lens:** Polycarbonate. **Bezel:** Polished stainless steel. **Socket:** Black nylon.

## SOCKETS

Mfr. No.	Description
4610	Unthreaded
4611	Threaded

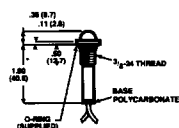
### SUB-MINIATURE WEDGE-BASE LAMPS

Mfr. No.	Design Voltage	Amps	Candle Power (Approx.)	Rated Life Hours
56	5.0	.115	.15	20,000
84	6.3	.040	.03	20,000
86	6.3	.200	.40	20,000
18	14.0	.040	.13	5,000
73	14.0	.080	.30	15,000
85	28.0	.040	.30	7,000
17	28.0	.060	.65	5,000

## LENSES

Mfr. No.		Color
Round Lens	Flat Lens	
4621	4631	Red
4623	4633	Amber
4625	4635	Green
4626	4636	Blue
4627	4637	Yellow

## OIL-TIGHT SERIES 6000



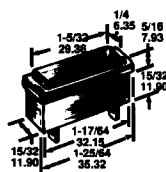
- Fully gasketed construction
- Meets NEMA specification ICS1-110.60
- Neon models come with built-in current limiting resistor. LED models come with built-in current limiting resistor and a rectifier diode.

**Mounting:** Supplied with internal tooth lockwasher and hex nut; requires .38" min. dia. hole. **Wire Leads:** No. 22 AWG (105°C), 4.4-4.8" long stripped .43-.47". **Lens:** Polycarbonate. **Bezel:** Stainless steel. **Gaskets:** Buna-N. **Housing:** Black nylon.

Mfr. No.	Volts	Color
<b>Solid State Lamps</b>		
6091M1-12V	12	Red
6091M5-12V	12	Green
6091M7-12V	12	Yellow
6091M1-24V	24	Red
6091M5-24V	24	Green
6091M7-24V	24	Yellow
<b>Neon Lamps</b>		
6010M1	125	Red
6010M3	125	Amber
6012M5	125	Green*
6011M1	250	Red
6011M3	250	Amber
6013M5	250	Green*

\* Incorporates G2B lamp and resistor.

## RECTANGULAR NEON PILOT LIGHTS

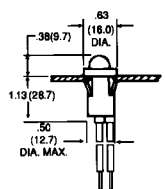


Series 2300 will snap-fit into .032-.100" thick panels without a speednut and into other thicknesses with a speednut. Mounting hole: 1.276-1.281"x.395-.400".

Mfr. No.	Color	VAC
2330QD1*	Red	120
2330QD3*	Amber	120
2332QD5*‡	Green	120
2330D1†	Red	120
2330D3†	Amber	120
2332D5‡	Green	120

\* With .250" tinned brass terminals. † With 4.4-4.8" long wire leads, stripped .43-.57". Speed nuts sold separately. ‡ Incorporates G2B lamp with resistor.

## INCANDESCENT AND SOLID STATE INDICATORS

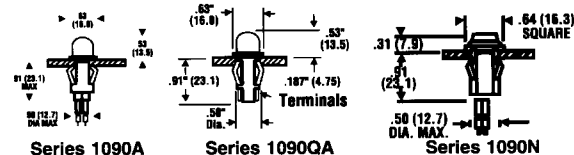


**Series 1091M**

Series 1091M is solid state, complete with built-in current limiting resistor and rectifier diode. For solid state lens colors, insert 1-Red, 5-Green, 7-Yellow, for "x" in the stock number.

### Solid State Indicators

Mfr. No.	Volts
1091M*-12V	12
1091M*-24V	24
1091M*-125VAC	105-125VAC

**Series 1090A**

## Series 1090QA

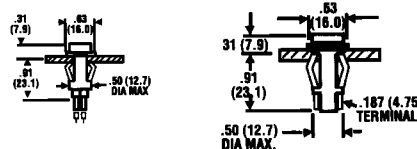
**Series 1090N**

Series 1090 are incandescent and are available in 6, 12, or 28 volt types. For incandescent lens colors, insert 1-Red, 5-Green, 7-Yellow, 4-White, for "w" in the stock number.

Mr. No.	Volts
<b>Incandescent Indicators with Dome Lenses</b>	
1090A*-12V	12
1090A*-28V	28
1090QA*-12V	12
1090QA*-28V	28

### Incandescent Indicators with Square Lenses

1090N*-12V	12
1090N*-28V	28



## Series 1090C

## Series 1090QC

### Incandescent Indicators with High-Hat Lenses

Mfr. No.	Volts
1090C*-12V	12
1090C*-28V	28
1090QC*12V	12
1090QC*28V	28

\* 125 VAC supplied with 6" white wire, stripped 1/2" with external 3.9K 1/2 watt resistor attached to one lead, covered with shrink tubing insulation.

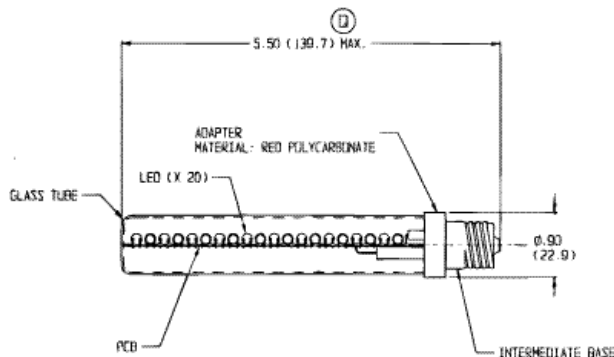


## MULTIPLE LED EXIT LAMP

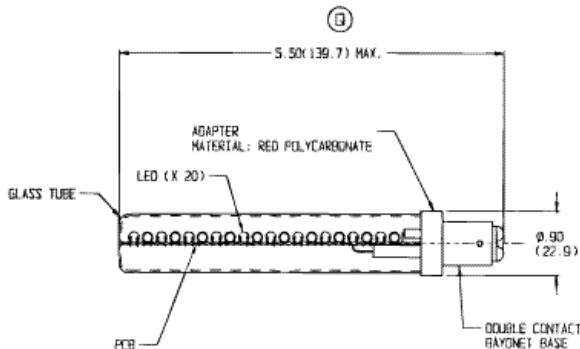
### FEATURES AND BENEFITS

- Lower power consumption reduces energy costs
- Continuous uniform lighting eliminates hot spots and distortion
- Extremely long lamp life reduces the cost of annual maintenance
- Quality construction materials and procedures meet UL
- Solid state electronics minimize the detrimental effects of vibration, temperature swings and power surges
- Stock and custom lamp availability enhances design flexibility

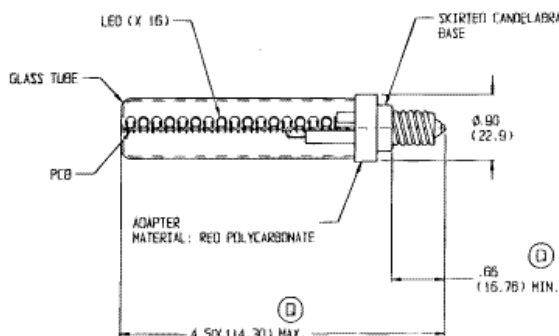
### 20 LED / INTERMEDIATE LAMP ASSEMBLY



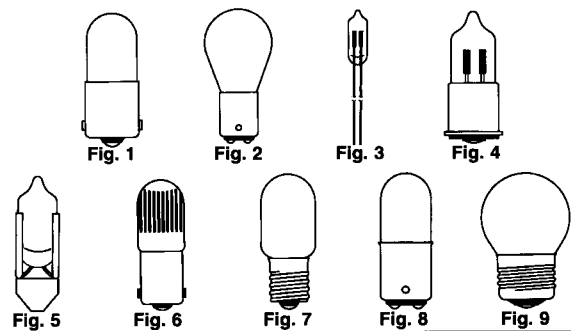
### 20 LED / BAYONET LAMP ASSEMBLY



### 16 LED / CANDELABRA LAMP ASSEMBLY

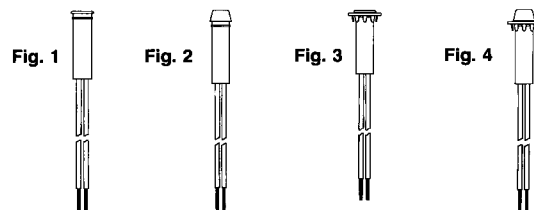


### NEON LAMPS



Mfr. No.	Design Current mA (110-120V)	Recommended Series Resistor		Fig.	Lamp Size
		Ohms	Watts		
B6A (NE-21)	2.00	30K	1/4	1	T-4 1/2
B8A (NE-47)	2.00	30K	1/4	1	T-4 1/2
R1A (NE-79)	8.00	7.5K	1/4	2	S-7
2ML (NE-38S)	0.30	100K	1/4	3	T-1 1/4
A1A (NE-2)	0.70	100K	1/4	3	T-2
A1B	0.30	220K	1/4	3	T-2
A1C	1.20	47K	1/4	3	T-2
A2A	0.70	100K	1/4	3	T-2
A2B (NE-2V)	0.70	100K	1/4	3	T-2
A9A (NE-2E)	0.70	100K	1/4	3	T-2
C2A (NE-2H)	1.90	30K	1/4	3	T-2
C2A-T (NE-2HT)	1.90	30K	1/4	3	T-2
A1G	0.30	220K	1/4	4	T-1 3/4
A1H	1.20	47K	1/4	4	T-1 3/4
C7A (NE-2D)	0.70	100K	1/4	4	T-1 3/4
C9A (NE-2J)	1.90	30K	1/4	4	T-1 3/4
K1A (NE-84)	1.90	30K	1/4	5	T-2
K1B1	1.20	47K	1/4	5	T-2
K1C5	0.70	100K	1/4	5	T-2
B1A (NE-51)	0.30	220K	1/4	6	T-3 1/4
B2A (NE-51H)	1.20	47K	1/4	6	T-3 1/4
B2A-R (NE-51HR)	1.20	47K	1/4	6	T-3 1/4
B7A (NE-45)	2.00	30K	1/4	7	T-4 1/2
B5A (NE-17)	2.00	30K	1/4	8	T-4 1/2
B9A (NE-48)	2.00	30K	1/4	8	T-4 1/2
J5A (NE-30)	8.00	7.5K	1/4	9	S-11
J9A (NE-56)	5.00	39K	1/2	9	S-11

### NEON GLO-LITE INDICATORS



Feature built-in C2A neon, high brightness, 25,000-hour lamp with current limiting series resistor for UL recognized, CSA certified 125 VAC operation. Wired units have 10" #22 AWG leads. Figures 1 & 2 mount 0.375" Dia. (9.53) hole, to 1.25" (31.75) panel thickness; figures 3 & 4 snap mount into 0.500" Dia. (12.70) hole, to 0.078" (1.98) panel thickness.

### CML Series Indicators with Flush Transparent Lens

Mfr. No.	Fig.	Color	Description
6063-001-534R	1	Red	Flat face
6063-001-634R	2	Red	Conical face
6073-001-534R	3	Red	Flat face
6073-001-634R	4	Red	Conical face
6073-001-634W	4	White	Conical face

### SUBMINIATURE SOLID-STATE INDICATOR LIGHTS



Sub-midget style with built-in bright LED; 70° viewing angle. Resistant to shock and vibration. Can be powered with low electrical energy supply or driven directly with solid-state circuitry. Operates on 1.8 to 2.8 VDC. Maximum DC current: 50 ma. Mounts in 0.193" (4.90) Dia. "D" hole in 0.188" (4.78) thick (max.) panel, on 0.344" (8.74) centers min. 6" wire leads, 105° C PVC insulation.

Mfr. No.	Color	MCD
6039-004-304G	Green	3.2
6039-004-304R	Red	2.0
6039-004-304Y	Yellow	3.2