



固體電子有限公司 Solitronics Engineering Ltd.

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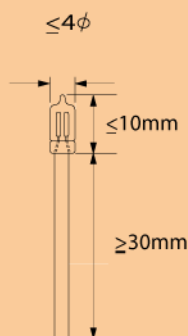


Fig. 1.1

NE410/30

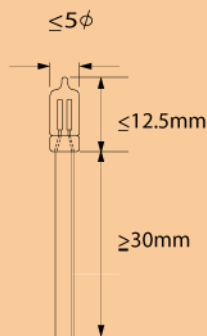


Fig. 1.2

NE512/30

RoHS

Bestell- bezeichnung Lamp reference Référence	Nenn- spannung Supply voltage Tension nominale Volt	Vor- widerstand Series resistor Résistance Ω W	Nenn- strom Lamp current Débit mA	Zünd- spannung Striking voltage Tension d'amorçage Volt	Lebensdauer (Mittel) Rated-life Durée de vie (moyenne) Hrs	Abb. Fig. Fig.	Remarks Typical Luminous-flux ±25% (milli-lumen)
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Baureihe Langlebensdauer / Long-life Standard Brightness range / Série longue durée

NE410/30SB	115V ~ A.C.	180K	0.25W	0.40mA	≤65V ~ A.C.	100 000 Hrs.	1.1	15 mlm
		150K		0.50mA				18 mlm
NE512/30SB	230V ~ A.C.	470K	0.25W	0.40mA			1.2	15 mlm
		390K		0.50mA				18 mlm
	400V ~ A.C.	1.0M	0.50W	0.40mA				15 mlm
		720K		0.50mA				18 mlm
NE410/30HB-1	115V ~ A.C.	100K	0.25W	0.70mA	≤65V ~ A.C.	50 000 Hrs.	1.1	25 mlm
		82K		0.80mA				30 mlm
NE512/30HB-1	230V ~ A.C.	270K	0.25W	0.70mA			1.2	25 mlm
		220K		0.80mA				30 mlm
	400V ~ A.C.	560K	0.50W	0.70mA				25 mlm
		470K		0.80mA				30 mlm
NE410/30HB-1X	115V ~ A.C.	68K	0.25W	1.05mA	≤65V ~ A.C.	30 000 Hrs.	1.1	25 mlm
		56K		1.15mA				30 mlm
NE512/30HB-1X	230V ~ A.C.	180K	0.25W	1.05mA			1.2	25 mlm
		150K		1.15mA				30 mlm
	400V ~ A.C.	390K	0.50W	1.05mA				25 mlm
		330K		1.15mA				30 mlm

Baureihe normal / Standard and high brightness range / Série normale

Standard Normal - Standard and high brightness range - 7 Cells Normal								
NE410/30HB-2	115V ~ A.C.	47K	0.25W	1.05mA	≤95V ~ A.C.	25 000 Hrs.	1.1	95 mlm
	230V ~ A.C.	150K	0.25W	1.05mA				95 mlm
	400V ~ A.C.	330K	0.50W	1.05mA				95 mlm
NE410/30HB	115V ~ A.C.	39K	0.25W	1.35mA	≤95V ~ A.C.	20 000 Hrs.	1.1	115 mlm
		33K		1.60mA				135 mlm
	230V ~ A.C.	120K	0.25W	1.35mA				115 mlm
100K		1.60mA		135 mlm				
NE512/30HB	400V ~ A.C.	270K	0.50W	1.35mA			1.2	115 mlm
		220K		1.60mA				135 mlm

Standard Packing:

NE410: Packing: 200 pcs per polybag; 25K pcs per Inner Box; 50K pcs per Export Carton; Dimensions: 41x35x25cm G.W.: 14.0 Kgs.

NE512: Packing: 200 pcs per polybag; 10K pcs per Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25cm G.W.: 10.5 Kgs.

Remarks:



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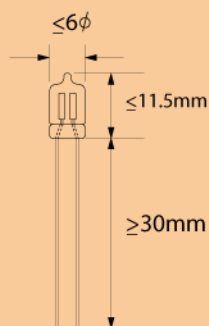


Fig. 1.3

NE611/30

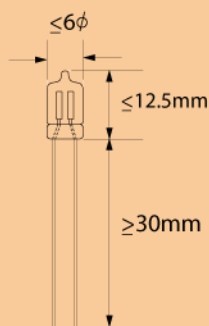


Fig. 1.4

NE613/30

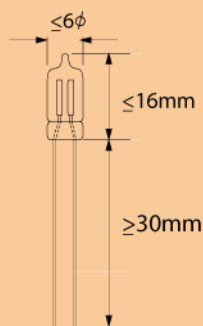


Fig. 1.5

NE616/30

RoHS

Bestell- bezeichnung Lamp reference Référence	Nenn- spannung Supply voltage Tension nominale Volt	Vor- widerstand Series resistor Résistance Ω W	Nenn- strom Lamp current Débit mA	Zünd- spannung Striking voltage Tension d'amorçage Volt	Lebensdauer (Mittel) Rated-life Durée de vie (moyenne) Hrs	Abb. Fig. Fig.	Remarks Typical Luminous-Flux ±25% (milli-lumen)
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Baureihe Langlebensdauer/ Standard Brightness range/ Série longue durée

NE611/30SB	115V ~ A.C.	180K	0.25W	0.40mA	≤65V ~ A.C.	100 000 Hrs.	1.3	16 mlm
		150K		0.50mA				20 mlm
NE613/30SB	230V ~ A.C.	470K	0.25W	0.40mA			1.4	16 mlm
		390K		0.50mA				20 mlm
NE616/30SB	400V ~ A.C.	1.0M	0.50W	0.40mA			1.5	16 mlm
		720K		0.50 mA				20 mlm
NE611/30HB-1	115V ~ A.C.	100K	0.25W	0.70 mA	≤65V ~ A.C.	50 000 Hrs.	1.3	30 mlm
		82K		0.80 mA				35 mlm
NE613/30HB-1	230V ~ A.C.	270K	0.25W	0.70 mA			1.4	30 mlm
		220K		0.80mA				35 mlm
NE616/30HB-1	400V ~ A.C.	560K	0.50W	0.70mA			1.5	30 mlm
		470K		0.80mA				35 mlm
NE611/30HB-1X	115V ~ A.C.	68K	0.25W	1.05mA	≤65V ~ A.C.	30 000 Hrs.	1.3	30 mlm
		56K		1.15mA				35 mlm
NE613/30HB-1X	230V ~ A.C.	180K	0.25W	1.05mA			1.4	30 mlm
		150K		1.15mA				35 mlm
NE616/30HB-1X	400V ~ A.C.	390K	0.50W	1.05mA			1.5	30 mlm
		330K		1.15mA				35 mlm

Baureihe normal/Standard and high brightness range/ Série normale

NE611/30HB-2	115V ~ A.C.	47K	0.25W	1.05mA	≤95V ~ A.C.	25 000 Hrs.	1.3	90 mlm
NE613/30HB-2	230V ~ A.C.	150K	0.25W	1.05mA			1.4	90 mlm
NE616/30HB-2	400V ~ A.C.	330K	0.50W	1.05mA			1.5	90 mlm
NE611/30HB	115V ~ A.C.	39K	0.25W	1.35mA	≤95V ~ A.C.	20 000 Hrs.	1.3	110 mlm
		33K		1.60mA				130 mlm
NE613/30HB	230V ~ A.C.	120K	0.25W	1.35mA			1.4	110 mlm
		100K		1.60mA				130 mlm
NE616/30HB	400V ~ A.C.	240K	0.50W	1.35mA			1.5	110 mlm
		220K		1.60mA				130 mlm

NE611 Packing: 200 pcs per polybag; 10K pcs Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 10.5 Kgs.

NE613 Packing: 200 pcs per polybag; 10K pcs Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 11.5 Kgs.

NE616 Packing: 200 pcs per polybag; 10K pcs Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 13.0 Kgs.

Remarks:



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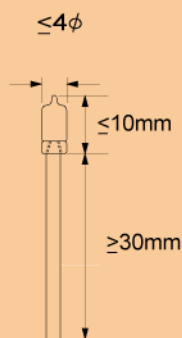


Fig. 2.1

NE410/30

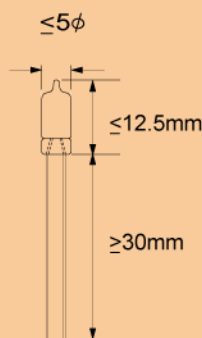


Fig. 2.2

NE512/30

RoHS

Bestell- bezeichnung	Nenn- spannung	Vor- widerstand	Nenn- strom	Zünd- spannung	Lebensdauer (Mittel)	Abb.	Remarks
Lamp reference	Supply voltage	Series resistor	Lamp current	Striking voltage	Rated-life	Fig.	Typical Luminous-Flux ±25% (Milli-lumen)
Référence	Tension nominale	Résistance	Débit	Tension d'armorage	Durée de vie (moyenne)	Fig.	
	Volt	Ω W	mA	Volt	Hrs		

Signalfarbe grün/ Color green/ Couleur de signalization verte
Baureihe Langlebensdauer/ Standard Brightness range/ Série longue durée

NE410/30G-1	115V ~ A.C.	150K	0.25W	0.40mA	≤85V ~ A.C.	50 000 Hrs.	2.1	16 mlm
		120K		0.50mA				20 mlm
NE512/30G-1	230V ~ A.C.	470K	0.25W	0.40mA			2.2	16 mlm
		390K		0.50mA				20 mlm
	400V ~ A.C.	820K	0.50W	0.40mA				16 mlm
		680K		0.50mA				20 mlm
NE410/30G-2	115V ~ A.C.	82K	0.25W	0.70mA	≤85V ~ A.C.	30 000 Hrs.	2.1	30 mlm
		68K		0.80mA				35 mlm
	230V ~ A.C.	270K	0.25W	0.70mA			2.2	30 mlm
		220K		0.80mA				35 mlm
NE512/30G-2	400V ~ A.C.	510K	0.50W	0.70mA				30 mlm
		470K		0.80mA				35 mlm

Signalfarbe grün/ Color green/ Couleur de signalization verte
Baureihe normal/Standard and high brightness range/ Série normale

Standard Normal/Standard and High Brightness range/ Serie Normal									
NE410/30G-2X	115V ~ A.C.	56K	0.25W	1.05mA	≤85V ~ A.C.	25 000 Hrs.	2.1	40 mlm	
		51K		1.20mA				45 mlm	
		180K		1.05mA				40 mlm	
NE512/30G-2X	230V ~ A.C.	150K	1.20mA	2.2			45 mlm		
		330K	1.05mA				40 mlm		
	400V ~ A.C.	300K	1.20mA				45 mlm		
NE410/30G	115V ~ A.C.	47K	0.25W		1.35mA	≤85V ~ A.C.	20 000 Hrs.	2.1	50 mlm
		39K			1.60mA				55 mlm
		120K			1.35mA				50 mlm
NE512/30G	230V ~ A.C.	100K	1.60mA	2.2	55 mlm				
		270K	1.35mA		50 mlm				
	400V ~ A.C.	220K	1.60mA		55 mlm				

Standard Packing:
NE410: Packing: 200 pcs per polybag; 25K pcs per Inner Box; 50K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 14.0 Kgs.
NE512: Packing: 200 pcs per polybag; 10K pcs per Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 10.5 Kgs.
Remarks:



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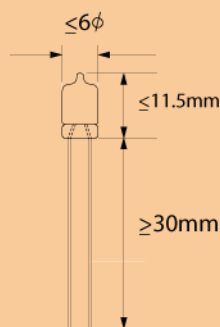


Fig. 2.3

NE611/30

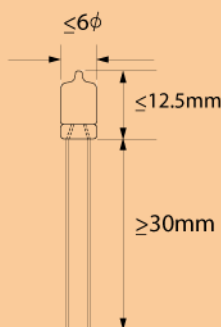


Fig. 2.4

NE613/30

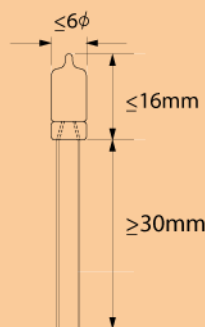


Fig. 2.5

NE616/30

RoHS

Bestell- bezeichnung	Nenn- spannung	Vor- widerstand	Nenn- strom	Zünd- spannung	Lebensdauer (Mittel)	Abb.	Remarks
Lamp reference	Supply voltage	Series resistor	Lamp current	Striking voltage	Rated-life	Fig.	Typical Luminous-Flux ±25% (Milli-lumen)
Référence	Tension nominale	Résistance	Débit	Tension d'amorçage	Durée de vie (moyenne)	Fig.	
	Volt	Ω W	mA	Volt	Hrs		

Signalfarbe grün/ Color green/ Couleur de signalization verte

Baureihe Langlebensdauer/ Standard Brightness range/ Série longue durée

NE611/30G-1	115V ~ A.C.	150K	0.25W	0.40mA	≤85V ~ A.C.	50 000 Hrs.	2.3	18 mlm
		120K		0.50mA				20 mlm
NE613/30G-1	230V ~ A.C.	470K	0.25W	0.40mA			2.4	18 mlm
		390K		0.50mA				20 mlm
NE616/30G-1	400V ~ A.C.	860K	0.50W	0.40mA			2.5	18 mlm
		680K		0.50mA				20 mlm
NE611/30G-2	115V ~ A.C.	91K	0.25W	0.70mA	≤85V ~ A.C.	30 000 Hrs.	2.3	28 mlm
		82K		0.80mA				32 mlm
NE613/30G-2	230V ~ A.C.	270K	0.25W	0.70mA			2.4	28 mlm
		220K		0.80mA				32 mlm
NE616/30G-2	400V ~ A.C.	500K	0.50W	0.70mA			2.5	28 mlm
		430K		0.80mA				32 mlm

Signalfarbe grün/ Color green/ Couleur de signalization verte

Baureihe Langlebensdauer/ Standard Brightness range/ Série longue durée

NE611/30G-2X	115V ~ A.C.	62K	0.25W	1.05mA	≤85V ~ A.C.	25 000 Hrs.	2.3	38 mlm
		56K		1.20mA				40 mlm
NE613/30G-2X	230V ~ A.C.	180K	0.25W	1.05mA			2.4	38 mlm
		150K		1.20mA				40 mlm
NE616/30G-2X	400V ~ A.C.	330k	0.50W	1.05mA			2.5	38 mlm
		270K		1.20mA				40 mlm
NE611/30G	115V ~ A.C.	47K	0.25W	1.35mA	≤85V ~ A.C.	20 000 Hrs.	2.3	46 mlm
		39K		1.60mA				52 mlm
NE613/30G	230V ~ A.C.	130K	0.25W	1.35mA			2.4	46 mlm
		100K		1.60mA				52 mlm
NE616/30G	400V ~ A.C.	270K	0.50W	1.35mA			2.5	46 mlm
		220K		1.60mA				52 mlm

Standard Packing:

NE611 Packing: 200 pcs per polybag; 10K pcs Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 10.5 Kgs.

NE613 Packing: 200 pcs per polybag; 10K pcs Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 11.5 Kgs.

NE616 Packing: 200 pcs per polybag; 10K pcs Inner Box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm; G.W.: 13.0 Kgs.

Remarks:



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RoHS

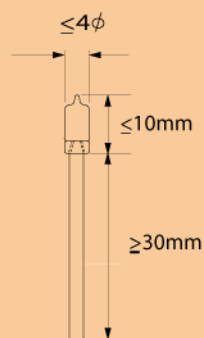


Fig. 2.1

NE410/30

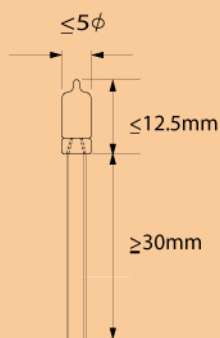


Fig. 2.2

NE512/30

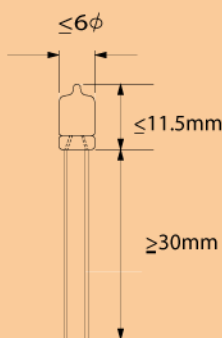


Fig. 2.3

NE611/30

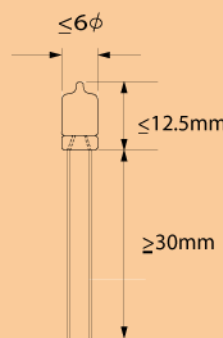


Fig. 2.4

NE613/30

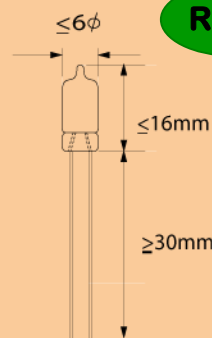


Fig. 2.5

NE616/30

Bestell- bezeichnung	Nenn- spannung	Vor- widerstand	Nenn- strom	Zünd- spannung	Lebensdauer (Mittel)	Abb.	Remarks
Lamp reference	Supply voltage	Series resistor	Lamp current	Striking voltage	Rated-Life	Fig.	Typical Luminous-flux ±25% (milli-lumen)
Référence	Tension nominale	Résistance	Débit	Tension d'amorçage	Durée de vie (moyenne)	Fig.	
	Volt	Ω W	mA	Volt	Hrs		

Signalfarbe blau / Colour blue / Couleur de signalization bleue

Baureihe Langlebensdauer/ Standard Brightness range/ Série longue durée

NE410/30B-2	115V~ A.C.	56K	0.25W	1.05mA	≤85V ~ A.C.	5, 000 Hrs.	2.1	14mlm
		47K		1.20mA				15mlm
NE512/30B-2	230V~ A.C.	180K	0.25W	1.05mA			2.2	14mlm
		150K		1.20mA				15mlm
	400V~ A.C.	330K	0.50W	1.05mA				14mlm
		270K		1.20mA				15mlm
NE410/30B	115V~ A.C.	56K	0.25W	1.35mA	≤85V~ A.C.	5, 000 Hrs.	2.1	22mlm
		47K		1.60mA				24mlm
NE512/30B	230V~ A.C.	120K	0.25W	1.35mA			2.2	22mlm
		100K		1.60mA				24mlm
	400V~ A.C.	270K	0.50W	1.35mA				22mlm
		220K		1.60mA				24mlm

Signalfarbe blau / Colour blue / Couleur de signalization bleue

Baureihe Langlebensdauer/ Standard Brightness range/ Série longue durée

NE611/30B-2X	115V~ A.C.	56K	0.25W	1.05mA	≤85V ~ A.C.	10, 000 Hrs.	2.3	16mlm
		47K		1.20mA				18mlm
NE613/30B-2X	230V~ A.C.	180K	0.25W	1.05mA			2.4	16mlm
		150K		1.20mA				18mlm
NE616/30B-2X	400V~ A.C.	330K	0.50W	1.05mA			2.5	16mlm
		270K		1.20mA				18mlm
NE611/30B	115V~ A.C.	47K	0.25W	1.35mA	≤85V~ A.C.	10, 000 Hrs.	2.3	24mlm
		39K		1.60mA				26mlm
NE613/30B	230V~ A.C.	120K	0.25W	1.35mA			2.4	24mlm
		100K		1.60mA				26mlm
NE616/30B	400V~ A.C.	270K	0.50W	1.35mA			2.5	24mlm
		240K		1.60mA				26mlm

NE410: Packing: 200 pcs per polybag; 25K pcs per inner box; 50K pcs per Export Carton; Dimensions: 41x35x25 cm G.W.: 14.0 Kgs.

NE512: Packing: 200 pcs per polybag; 10K pcs per inner box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm G.W.: 10.5 Kgs.

NE611: Packing: 200 pcs per polybag; 10K pcs per inner box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm G.W.: 10.5 Kgs.

NE613: Packing: 200 pcs per polybag; 10K pcs per inner box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm G.W.: 10.0 Kgs.

NE616: Packing: 200 pcs per polybag; 10K pcs per inner box; 20K pcs per Export Carton; Dimensions: 41x35x25 cm G.W.: 13.0 Kgs.

Remarks:



RoHS

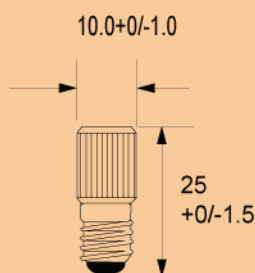


Fig. 3.1

T-10X25 E10

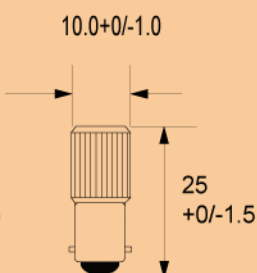


Fig. 3.2

T-10X25 BA9s

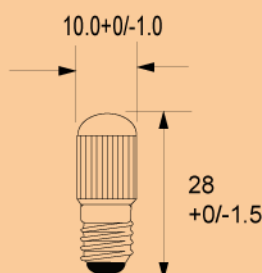


Fig. 3.3

T-10X28 E10

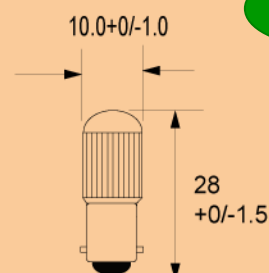


Fig. 3.4

T-10X28 BA9s

Bestell- bezeichnung	Nenn- spannung	Zünd- spannung	Nenn- strom	Vor- widerstand	Labensdauer (Mittel)	Socket	Abb.
Lamp reference	Supply voltage	Striking voltage	Lamp current	Series resistor	Rated-life	Cap	Fig.
Référence	Tension nominale	Tension d'amorçage	Débit	Résistance	Durée de vie (moyenne)	Culot	Fig.
	Volt	Volt	mA	Ω W	Hrs		

T-10x25mm E10/BA9s Neon Signal Lamp with Fresnel-Ring Polycarbonate-Lens (With Built-in Resistor)

THERMISTOR: E10/E10s Non-Ohmic Lamp with Positive Temp. Coefficient (Lamp with Lamp in Resistor)					Eingebaut Built in Incorporée	20 000	E10	Fig 3.1
1025-11	110/130V~AC	≤95V	1.80mA	BA9s			Fig 3.2	
1025-12								
1025-21	220/240V~AC	≤95V	1.80mA	E10			Fig 3.1	
1025-22				BA9s			Fig 3.2	
1025-31	380V~ A.C	≤95V	1.80mA	E10			Fig 3.1	
1025-32				BA9s			Fig 3.2	

T-10x25mm E10/BA9s Green Fluorescent Signal Lamp with Fresnel-Ring Polycarbonate-Lens (With Built-in Resistor)

1025xxm: E10/E10s Green Resistor: Signal Lamp with Footed Ring, 0.1% Carbonate Lens (With Built in Resistor)							
1025-11G	110/130V~AC	≤85V	1.80mA	Eingebaut Built in Incorporée	15 000	E10	Fig 3.1
1025-22G						BA9s	Fig 3.2
1025-21G	220/240V~AC	≤85V	1.80mA			E10	Fig 3.1
1025-22G						BA9s	Fig 3.2
1025-31G	380V~ A.C	≤85V	1.80mA			E10	Fig 3.1
1025-32G						BA9s	Fig 3.2

T-10x28mm E10/BA9s Neon Signal Lamp with Lens-end Polycarbonate-Envelope (With Built-in Resistor)

1028-11					Eingebaut Built in Incorporée	15 000	E10	Fig 3.3
1028-12							BA9s	Fig 3.4
1028-21							E10	Fig 3.3
1028-22								
1028-31							E10	Fig 3.3
1028-32								

T-10x28mm E10/BA9s Green Fluorescent Signal Lamp with Lens-end Polycarbonate-Envelope (With Built-in Resistor)

1028-11G	110/130V~AC.	≤85V	1.80mA	Eingebaut Built in Incorporée	15 000	E10	Fig 3.3
1028-12G						BA9s	Fig 3.4
1028-21G	220/240V~ A.C	≤85V	1.80mA			E10	Fig 3.3
1028-22G						BA9s	Fig 3.4
1028-31G	380V~ A.C	≤85V	1.80mA			E10	Fig 3.3
1028-32G						BA9s	Fig 3.4

T-10x28mm E10/BA9s Signal Lamp with Lens-end Polycarbonate-Envelope (Without built-in Resistor) (USA ANSI Part No.)

75422-01-01-000 Signal Lamp with Lens and Poly-carbonate Envelope (without sink in resistor) (CERANCE Part No.)									
B1AE (NE51E)	110/130V~AC	≤65V	0.50mA	120K	0,25W	15 000	E10	Fig 3.3	
B1A (NE51)							BA9s	Fig 3.4	
B2AE (NE51HE)	110/130V~AC	≤95V	1.80mA	39K	0,25W		E10	Fig 3.3	
B2A (NE51H)							BA9s	Fig 3.4	
B2GE (NE51GE)	110/130V~AC	≤85V	1.80mA	39K	0,25W		E10	Fig 3.3	
B2G (NE51G)							BA9s	Fig 3.4	

T-10x28mm E10/BA9s Signal Lamp with Lens-end Polycarbonate-Envelope (With built-in Resistor) (USA ANSI Part No.)

10x20mm E10-BAS Signal Lamp with Lens and Polycarbonate Envelope (with built-in Resistor) (CSA A900 Part No.)									
B1AER (NE51ER)	110/130V~AC	≤65V	0.50mA	Eingebaut Built in Incorporée	15 000	E10	Fig 3.3		
B1AR (NE51R)						BA9s	Fig 3.4		
B2AER (NE51HER)	110/130V~AC	≤95V	1.80mA			E10	Fig 3.3		
B2AR (NE51HR)						BA9s	Fig 3.4		
B2GER (NE51GER)	110/130V~AC	≤85V	1.80mA			E10	Fig 3.3		
B2GR (NE51GR)						BA9s	Fig 3.4		



固體電子有限公司 Solitronics Engineering Ltd.

2202, Perfect Ind. Bldg., 31 Tai Yau St., Kowloon, Hong Kong S.A.R., China

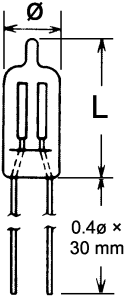
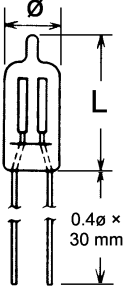
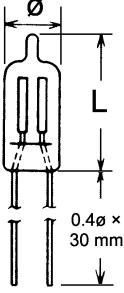
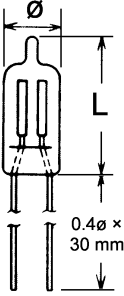
Tel : (852) 2730-8145

Fax : (852) 2730-3245

E-mail: info@solitronics.com

Short Form Catalogue of SEL Neon Lamps

Cat. No. SEL-NEWT-SF-01

Lamp Drawing	Dimensions ØxL (mm)	Strike-Voltage Volts Max. AC	Design Current (mA)	Series Carbon Film Resistor		Average Life (Hrs.)	Solitronics Part No.
				115V	230V		
STANDARD-BRIGHTNESS SB-SERIES (NE-2)							
	4Øx10.5	65V	0.50mA	100K-120K	330K-390K	50,000+	NE410/30SB
	6Øx12.5	65V	0.50mA	100K-120K	330K-390K	50,000+	NE612/30SB
	6Øx13.0	65V	0.50mA	100K-120K	330K-390K	50,000+	NE613/30SB
	6Øx16.0	65V	0.50mA	100K-120K	330K-390K	50,000+	NE616/30SB
	6Øx18.0	65V	0.50mA	100K-120K	330K-390K	50,000+	NE618/30SB
HIGH-BRIGHTNESS HB-1 SERIES (NE2-C)							
	4Øx10.5	65V	0.70mA	82K	220K	25,000+	NE410/30HB-1
	6Øx12.5	65V	0.80mA	68K-82K	180K-220K	25,000+	NE612/30HB-1
	6Øx13.0	65V	0.80mA	68K-82K	180K-220K	25,000+	NE613/30HB-1
	6Øx16.0	65V	0.80mA	68K-82K	180K-220K	25,000+	NE616/30HB-1
	6Øx18.0	65V	0.80mA	68K-82K	180K-220K	25,000+	NE618/30HB-1
HIGH-BRIGHTNESS HB-1X SERIES (NE-2CS)							
	4Øx10.5	65V	1.05mA	56K	180K	25,000	NE410/30HB-1X
	6Øx12.5	65V	1.15mA	47K-56K	150K-180K	25,000	NE612/30HB-1X
	6Øx13.0	65V	1.15mA	47K-56K	150K-180K	25,000	NE613/30HB-1X
	6Øx16.0	65V	1.15mA	47K-56K	150K-180K	25,000	NE616/30HB-1X
	6Øx18.0	65V	1.15mA	47K-56K	150K-180K	25,000	NE618/30HB-1X
HIGH-BRIGHTNESS HB SERIES (NE-2H)							
	4Øx10.5	95V	1.35mA	39K	120K	20,000	NE410/30HB
	6Øx12.5	95V	1.50mA	33K	100K	20,000	NE612/30HB
	6Øx13.0	95V	1.50mA	33K	100K	20,000	NE613/30HB
	6Øx16.0	95V	1.50mA	33K	100K	20,000	NE616/30HB
	6Øx18.0	95V	1.50mA	33K	100K	20,000	NE618/30HB

Remarks:

- All 6Ømm lamps are with 3mm lead-spacing to comply with VDE requirement.
- Due to continuous improvement, all data is subjected to change without prior notice.
- All lamps can also be supplied with 25mm, 50mm, 60mm or 67mm lead-length or pre-cut to required lengths.

Note: Special neon-lamp for Japanese and USA market requirements & special-sized neon-lamp are also available upon request.

RoHS



Short Form Catalogue of Green-Fluorescent Lamp Cat. No. SE-NEWT-SF-02

Lamp Drawing	Dimensions ØxL (mm)	Strike-Voltage (Volt) Max.	Design Current (mA)	Carbon-film Series Resistor		Average Life (Hrs.)	Solitronics Part No.
				115V	230V		
GREEN-FLUORESCENT G-1 SERIES (G-SB)							
	4Øx10.5	85V	0.50mA	100K-120K	330K-390K	15,000	NE410/30G-1
	6Øx12.5	85V	0.50mA	100K-120K	330K-390K	20,000	NE612/30G-1
	6Øx13.0	85V	0.50mA	100K-120K	330K-390K	20,000	NE613/30G-1
	6Øx16.0	85V	0.50mA	100K-120K	330K-390K	20,000	NE616/30G-1
	6Øx18.0	85V	0.50mA	100K-120K	330K-390K	20,000	NE618/30G-1
GREEN-FLUORESCENT G-2 SERIES (G-MB)							
	4Øx10.5	85V	0.70mA	82K	220K	15,000	NE410/30G-2
	6Øx12.5	85V	0.80mA	68K-82K	180K-220K	20,000	NE612/30G-2
	6Øx13.0	85V	0.80mA	68K-82K	180K-220K	20,000	NE613/30G-2
	6Øx16.0	85V	0.80mA	68K-82K	180K-220K	20,000	NE616/30G-2
	6Øx18.0	85V	0.80mA	68K-82K	180K-220K	20,000	NE618/30G-2
GREEN-FLUORESCENT G-2X SERIES (G-HB)							
	4Øx10.5	85V	1.05mA	56K	180K	15,000	NE410/30G-2X
	6Øx12.5	85V	1.15mA	47K-56K	150K-180K	20,000	NE612/30G-2X
	6Øx13.0	85V	1.15mA	47K-56K	150K-180K	20,000	NE613/30G-2X
	6Øx16.0	85V	1.15mA	47K-56K	150K-180K	20,000	NE616/30G-2X
	6Øx18.0	85V	1.15mA	47K-56K	150K-180K	20,000	NE618/30G-2X
GREEN-FLUORESCENT G SERIES (G-UHB)							
	4Øx10.5	85V	1.35mA	39K	120K	15,000	NE410/30G
	6Øx12.5	85V	1.60mA	33K	100K	20,000	NE612/30G
	6Øx13.0	85V	1.60mA	33K	100K	20,000	NE613/30G
	6Øx16.0	85V	1.60mA	33K	100K	20,000	NE616/30G
	6Øx18.0	85V	1.60mA	33K	100K	20,000	NE618/30G

Remarks: a) All 6Ømm lamps are with 3mm lead spacing to comply with VDE requirement.

b) Due to continuous improvement, all data is subjected to change without prior notice.

c) All lamps are available with 25mm, 50mm, 60mm, 67mm lead-length or pre-cut to required lengths.

RoHS

Note: Special green or blue fluorescent lamps for Japanese or USA market requirements & special-sized neon-lamps are also available.



SOLITRONICS ENGINEERING LTD.

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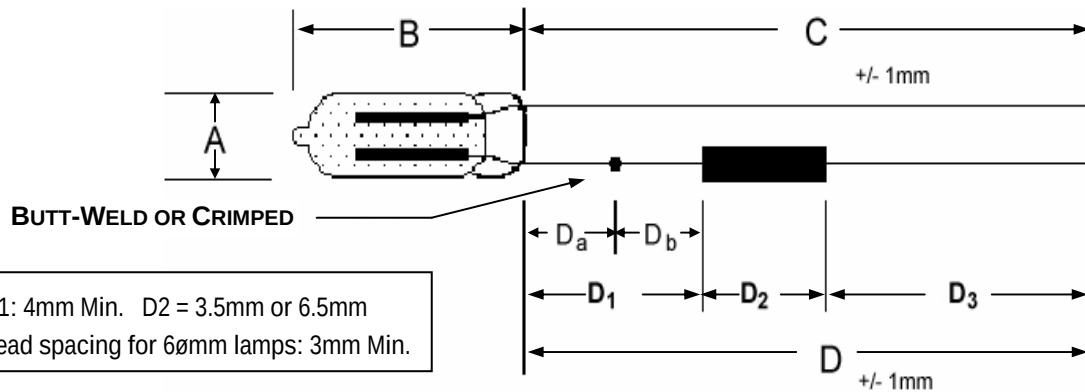
NEON-LAMP RESISTOR ASSEMBLY (NRA)

Date:

Customer Drawing No. or P/N:

SEL Ref. No.:

1. DIMENSIONS



Dimensions	A	B	C	D _a	D _b	D ₁	D ₂	D ₃	D	± mm
Original (mm)										
Tolerance (mm)										
Revision 1 (mm)										
Revision 2 (mm)										

2. JOINT METHOD

Neon Lamp + Resistor by:

☐

Butt-weld

☐

Crimped

☐

Soldering

3. NEON-LAMP TYPE

Solitronics Type No.:

- ☐ 4Ø × 10.5mm
☐ 6Ø × 12.5mm
☐ 6Ø × 13.0mm
☐ 6Ø × 16.0mm
☐ 6Ø × 18.0mm

* Recommended Types

☐

SB

Standard-Brightness 0.3-0.5mA
(230V/270K-330K & 110V/100K-120K)☐

HB

High-Brightness 1.6mA
(230V/100K-120K & 110V/33K-39K)☐

HB-1

High-Brightness (Low starting voltage) 0.7-0.8mA
(230V/220K-270K & 110V/68K-82K)☐

HB-1X

High-Brightness (Low starting voltage) 1.05-1.15mA
(230V/150K-180K & 110V/47K-56K)☐

G

Green-Fluorescent 1.6mA
(230V/100K-120K & 110V/33K-39K)☐

G-2

Green-Fluorescent 0.7-0.8mA
(230V/220K-270K & 110V/68K-82K)☐

G-2X

Green-Fluorescent 1.0-1.2mA
(230V/150K-180K & 110V/47K-56K)

SEL/Philips/ERG/VCH

4. RESISTOR

 K ohm
Carbon-Film Resistor (CF)

Wattage

- ☐ 1/6W
☐ 1/4W
☐ 1/3W

☐

For 110/130V

☐

For 220/240V

☐

For 330/400V

☐

Mini-size Resistor
2.5Ø×6.5mm with 0.50Ø
±0.02mm tin-plated leads

 K ohm
Metal-Film Resistor (MF)

- ☐ 1/6W
☐ 1/4W
☐ 1/3W

☐

For 110/130V

☐

For 220/240V

☐

For 380/400V

☐

Micro-size Resistor
2.0Ø×3.5mm with 0.50Ø
±0.02mm tin-plated leads



SOLITRONICS ENGINEERING LTD.

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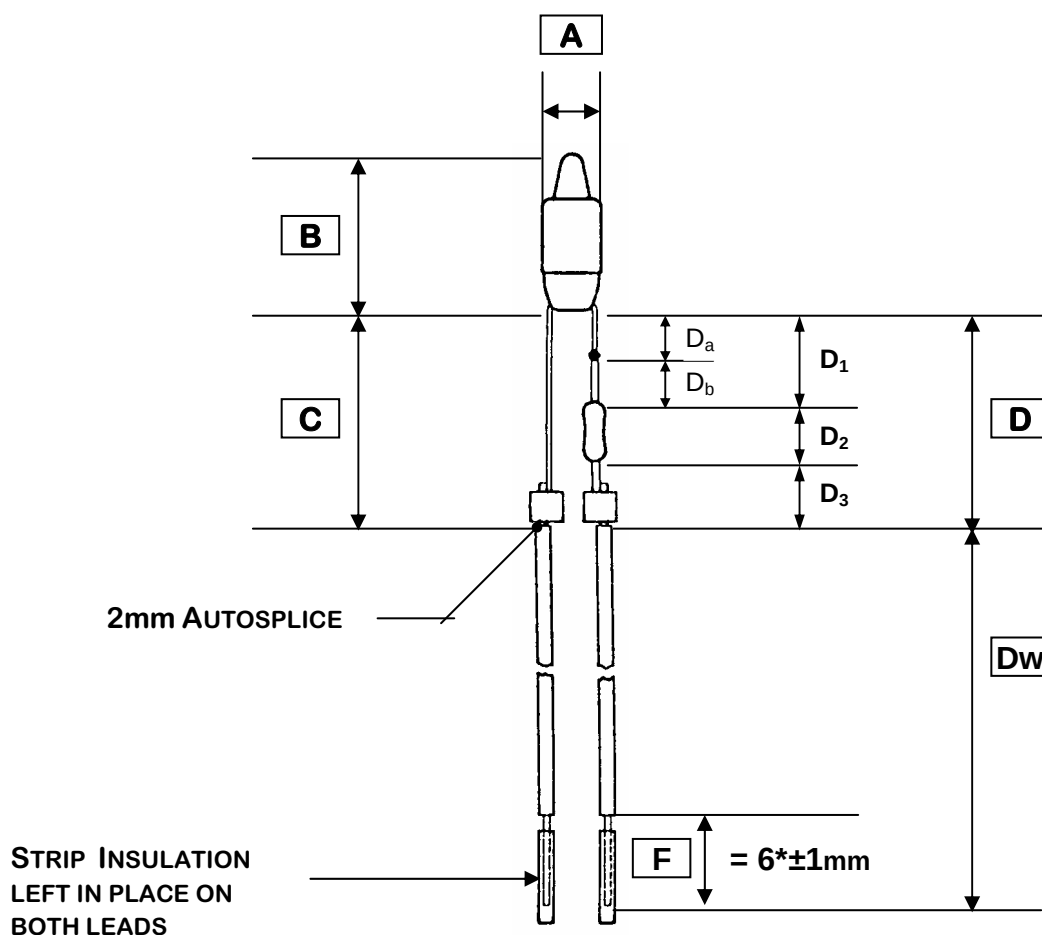
E-mail: info@solitronics.com

NEON-LAMP-ASSEMBLY WITH INSULATED WIRE

Date:

Customer Drawing No. or P/N:

SEL Ref. No.:



Neon-lamp Type No.:		Resistor:	
Wire Size: AWG#	18 / 20 / 22 / 24 / 26 ‡	Wire Type:	UL-1007 / UL-1015 ‡
Wire Colour:		Remarks	

‡ Please delete whichever inapplicable.

Dimensions	A	B	C	D _a	D _b	D ₁	D ₂	D ₃	D	E	F	± mm
Original (mm)												
Tolerance (mm)												
Revision 1 (mm)												
Revision 2 (mm)												



SOLITRONICS ENGINEERING LTD.

TEL: (852) 2730-8145

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E-mail: info@solitronics.com

Integrated Neon-module with plastic-holder & PVC cable for indicators and electrical appliances

Date: **13th May, 2002**

Group

NRAP-V1

Part Number:

SEL-NRAPV1-001-XXXX

Data Sheet:

SEL-NRAPV1-001

Neon-module for Indicators or appliances

1. Features

Integrated Neon light-module with internal resistor white polycarbonate plastic holder and AWG#24 (11x0.155Ø) 200mm UL/CSA approved UL-1015 T-105°C white 600V PVC cable with 10mm half-end trims.

Also available with friction-fit polycarbonate lens-cap in translucent Red, Amber, Green & Blue for nap-fit on to 9Ø mm panel cut-out.

LED versions for 12V, 24V, 36-48V, 60V AC/DC & 130V AC and 230V AC are also available.

2. Construction: -

Plastic Holder (Bezel): GE Lexan polycarbonate

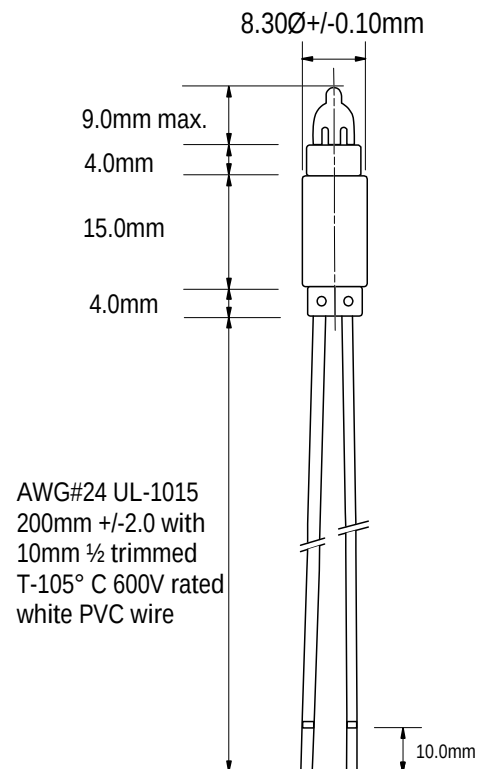
PVC Cable: AWG#24 Stranded 11/0.155Ø NP

UL-1015 CSA AWM VW-1 white

End trim: 10mm half-trim

Options: *Red, Amber, Green and blue Snap-fit*

Lens-cap for 9.0mmØ panel cut-out



Solitronics P/N	For Mains voltage & Current	Neon-Lamp/Resistor combination	Strike Voltage	Ex-works price per 1,000 pcs
SEL-NRAPV1-001-HB01	110-125V 1.25mA	NE613/30HB-2+R47K	95V Max.	High-Bright US\$100.00
SEL-NRAPV1-001-MB01	110-125V 1.35mA	NE613/30HB-1X+R47K	65V Max.	Med.Bright US\$100.00
SEL-NRAPV1-001-G201	110-125V 1.25mA	NE613/30G-2X+R47K	85V Max.	Green US\$135.00
SEL-NRAPV1-001-HB02	230-240V 1.25mA	NE613/30HB-2+R150K	95V Max.	High-Bright US\$100.00
SEL-NRAPV1-001-MB02	230-240V 1.35mA	NE613/30HB-1X+R150K	65V Max.	Med.Bright US\$100.00
SEL-NRAPV1-001-G202	230-240V 1.35mA	NE613/30G-2X+R150K	85V Max.	Green US\$135.00

Note: Plastic Holder: Overall Diameter: 8.30Ø±0.1mm

Smaller-end Diameter: 7.36Ø±0.02mm (For friction-fit to polycarbonate lens cap)

Blue fluorescent versions available upon request.

LED versions in Red, Amber, Green, Blue also available for 24V to 60V AC/DC & 130V, 240V AC



2nd April 2009

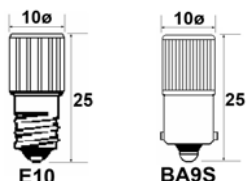
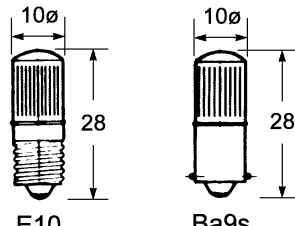
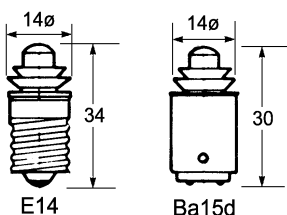
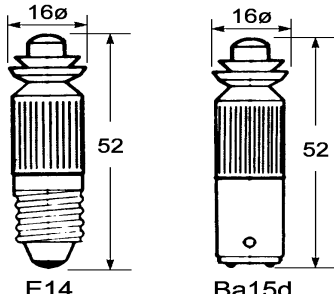
Catalogue No. SEL-NEON-BASED-PC-SF-01

Plastic Lens Neon Signal Lamp Bulbs for 22mmØ Lighted Push- Button Switches & Pilot Lamps For 110/130V, 220/240V & 380V 50/60Hz AC

Features:

- Lens-end design focus light to the front-end of the lamp
- Shock-resistant polycarbonate envelope
- High-light output and long-life expectancy 15K-25K Hrs. for Neon & 10K for Green
- Available with neon, green fluorescent and blue fluorescent lamps

RoHS

Configuration	Part No.		Electrical Rating		Standard Packing
T-10x25mm	E10	BA9s	Voltage	Current	
	1025-11	1025-12	110/130V	1.8mA ± 0.3	100 pcs/box
	1025-21	1025-22	220/240V	1.8mA ± 0.3	100 pcs/box
	1025-31	1025-32	380V	1.8mA ± 0.3	100 pcs/box
	1025-11G	1025-12G	110/130V	1.8mA ± 0.3	100 pcs/box
	1025-21G	1025-22G	220/240V	1.8mA ± 0.3	100 pcs/box
	1025-31G	1025-32G	380V	1.8mA ± 0.3	100 pcs/box
T-10x28mm	E10	BA9s	Voltage	Current	
	1028-11	1028-12	110/130V	1.8mA ± 0.3	100 pcs/box
	1028-21	1028-22	220/240V	1.8mA ± 0.3	100 pcs/box
	1028-31	1028-32	380V	1.8mA ± 0.3	100 pcs/box
	1028-11G	1028-12G	110/130V	1.8mA ± 0.3	100 pcs/box
	1028-21G	1028-22G	220/240V	1.8mA ± 0.3	100 pcs/box
	1028-31G	1028-32G	380V	1.8mA ± 0.3	100 pcs/box
	1028-11B	1028-12B	110/130V	1.8mA ± 0.3	100 pcs/box
	1028-21B	1028-22B	220/240V	1.8mA ± 0.3	100 pcs/box
	1028-31B	1028-32B	380V	1.8mA ± 0.3	100 pcs/box
	—	B1A(NE51)	65V	0.5mA	100 pcs/box
	—	B1A(NE51H)	90V	1.5mA	100 pcs/box
T-14x30-34mm	E14	BA15D	Voltage	Current	
	1430-11	1430-12	110/130V	1.8mA ± 0.3	100 pcs/box
	1430-21	1430-22	220/240V	1.8mA ± 0.3	100 pcs/box
	1430-31	1430-32	380V	1.8mA ± 0.3	100 pcs/box
	1430-11G	1430-12G	110/130V	1.8mA ± 0.3	100 pcs/box
	1430-21G	1430-22G	220/240V	1.8mA ± 0.3	100 pcs/box
	1430-31G	1430-32G	380V	1.8mA ± 0.3	100 pcs/box
T-16x52mm	E14	BA15D	Voltage	Current	
	1652-11	1652-12	110/130V	1.8mA ± 0.3	100 pcs/box
	1652-21	1652-22	220/240V	1.8mA ± 0.3	100 pcs/box
	1652-31	1652-32	380V	1.8mA ± 0.3	100 pcs/box
	1652-11G	1652-12G	110/130V	1.8mA ± 0.3	100 pcs/box
	1652-21G	1652-22G	220/240V	1.8mA ± 0.3	100 pcs/box
	1652-31G	1652-32G	380V	1.8mA ± 0.3	100 pcs/box

Note: All specifications are subject to change without prior notice. G=Green-Fluorescent B=Blue Fluorescent



SOLITRONICS ENGINEERING LTD.

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T-9x16.5mm Lens-end Ring Electrode Wire Terminal Neon-lamp for 115V & 230V $V_s \leq 65V$

Date:

26th July 2002

Group 6000:

T-9 GN Series

Part Number:

SEL-T9-16.5-GN-65V-110-230-1068

Data Sheet:

SEL-GN-T9-16.5-26-65V

Strike-Voltage $V_s = 65V$ Max. Operating-Current $I_o = 0.80mA$

1. Features & Application

High Quality Len-end Wire-Ring-Cup-Electrode
Neon lamp with 0.35 $\emptyset$ x26mm non-plated leads
For use as indicators for "Ceran" glass ceramic
Electric hob cooker tops for 100V (Japan) and
110V-125V (USA) Mains Markets.

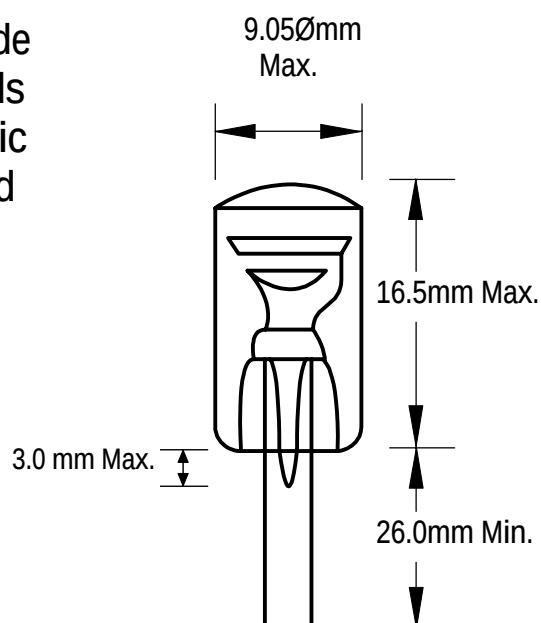
2. Physical Dimensions

Lamp diameter: 9.0mm -0.02/+0.05mm

Lamp Length : 16.5mm Max.

Lead Length : 0.35 $\emptyset$ +/-0.02 x 26.0mm Min.

Seal-tip protrusion: 3.0mm Max.



3. Operating Conditions: -

100V 68K 0.75mA 10K Hrs.

115V 68K 0.80mA 10K Hrs.

230V 180K 0.80mA 10K Hrs.

Strike-Voltage $V_s = 65V$ Max.Solitronics Engineering Ltd. E-mail: info@solitronics.com

Mains-Voltage AC	Volts	100V 50Hz	Strike-Voltage V_s	Volts	$V_s = 65V$ max. AC
Series Resistor	K ohm	68K	Wattage	W	1/3W
Current (I_o)	mA	0.75mA +/- 0.15mA	Life Expectancy	Hrs	12,000 Hrs
Mains-Voltage AC	Volts	115V 50Hz	Strike-Voltage V_s	Volts	$V_s = 65V$ max. AC
Series Resistor	K ohm	68K	Wattage	W	1/3W
Current (I_o)	mA	0.80mA +/- 0.15mA	Life Expectancy	Hrs	12,000 Hrs
Mains-Voltage AC	Volts	230V 50Hz	Strike-Voltage V_s	Volts	$V_s = 65V$ max. AC
Series Resistor	K ohm	180K	Wattage	W	1/3W
Current (I_o)	mA	0.80mA +/- 0.15mA	Life Expectancy	Hrs	12,000 Hrs

Note: All specifications are subject to change without notice.

Final drawing will be issue with Pro-Forma Invoice at time of ordering.

Nearest equivalent to ERG LG-100 (with performance greatly exceeding ERG LG-100)

Higher Brightness type for 230V equivalent to ERG LG-130 available upon request.



SOLITRONICS ENGINEERING LTD.

TEL: (852) 2730-8145

FAX: (852) 2730-3245

E-mail: info@solitronics.com

T-9x16.5mm Lens-end Ring Electrode Wire Terminal Neon-lamp for 115V & 230V $V_s \leq 95V$

Date:

26th July 2002

Group 6000:

T-9 GN Series

Part Number:

SEL-GN-T9-16.5-26-95V-110-230-1068

Data Sheet:

SEL-GN-T9-16.5-26-95V**Strike-Voltage $V_s = 95V$ Max. Operating-Current $I_o = 0.80mA$**

1. Features & Application

High Quality Len-end Ring-Electrode
Neon lamp with 0.35 ϕ x26mm non-plated leads
For use as indicators for "Ceran" glass ceramic
Electric hob cooker tops for 110V Mains (USA)
and 230V Mains (UK & European) Markets.

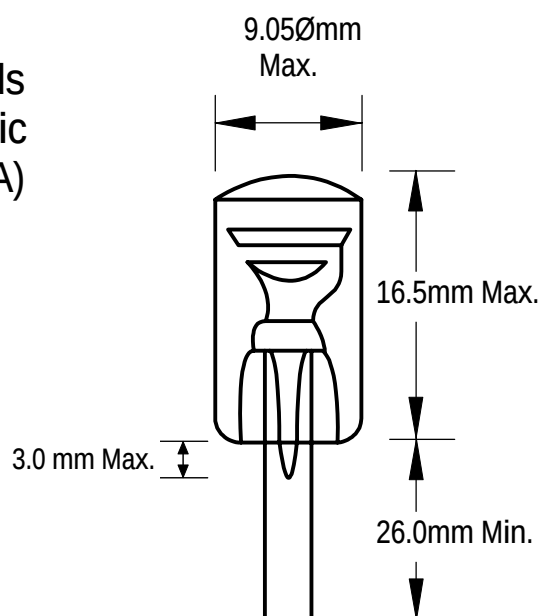
2. Physical Dimensions

Lamp diameter: 9.0mm -0.02/+0.05mm

Lamp Length : 16.5mm Max.

Lead Length : 0.35 ϕ +/-0.02 x 26.0mm Min.

Seal-tip protrusion: 3.0mm Max.



3. Operating Conditions: -

115V 68K 0.80mA 10K Hrs.

230V 180K 0.80mA 10K Hrs.

Strike-Voltage $V_s = 95V$ Max.Solitronics Engineering Ltd. E-mail: info@solitronics.com

Mains-Voltage AC	Volts	115V 50Hz	Strike-Voltage V_s	Volts	$V_s = 95V$ max. AC
Series Resistor	K ohm	68K	Wattage	W	1/3W
Current (I_o)	mA	0.80mA +/-0.15mA	Life Expectancy	Hrs	20,000 Hrs

Mains-Voltage AC	Volts	230V 50Hz	Strike-Voltage V_s	Volts	$V_s = 95V$ max. AC
Series Resistor	K ohm	180K	Wattage	W	1/3W
Current (I_o)	mA	0.80mA +/-0.15mA	Life Expectancy	Hrs	20,000 Hrs

Note: All specifications are subject to change without notice.**Final drawing will be issue with Pro-Forma Invoice at time of ordering.****Nearest equivalent to ERG LG-100 (with better performance than ERG LG-100)****Higher Brightness type for 230V equivalent to ERG LG-130 available upon request.**



18th July 2005

Catalogue No. SEL-NE-BASED-GS-SF-01

High Quality Glass-envelope Lens-end Cup-Ring Cup-Electrode Neon and Green Fluorescent Based Signal Lamps

1.0	Lens-end Glass-enveloped Ring-electrode Based Neon Lamps			
1.1	T-10x25mm	Part No. for E-10 Type	Part No. for BA9s Type	
	110V 0.50mA 220V 1.20mA 380V 1.20mA	1025-GN-110 1025-GN-210 1025-GN-310	1025-GN-109 1025-GN-209 1025-GN-309	
1.2	T-10x28mm	E-10	BA9s	
	110V 0.50mA 220V 1.20mA 380V 1.20mA	1028-GN-110 1028-GN-210 1028-GN-310	1028-GN-109 1028-GN-209 1028-GN-309	
1.3	T-13x33mm	E-12	BA15D	
	110V 0.70mA 220V 1.50mA 380V 1.50mA	1333-GN-112 1333-GN-212 1333-GN-312	1333-GN-115D 1333-GN-215D 1333-GN-315D	
1.4	T-14x30mm	E-14	BA15D	
	110V 0.70mA 220V 1.50mA 380V 1.50mA	1430-GN-114 1430-GN-214 1430-GN-314	1430-GN-115D 1430-GN-215D 1430-GN-315D	
1.5	T-16x52-54mm	E-14	BA15D	
	110V 1.00mA 220V 1.80mA 380V 1.80mA	1654-GN-114 1654-GN-214 1654-GN-314	1654-GN-115D 1654-GN-215D 1654-GN-315D	
2.0	Glass-enveloped Green-fluorescent Based Neon Lamps			
2.1	T-10x25mm	E-10 per	BA9s	
	110V 0.50mA 220V 1.20mA 380V 1.20mA	1025-GG-110 1025-GG-210 1025-GG-310	1025-GG-109 1025-GG-209 1025-GG-309	
2.2	T-10x28mm	E-10	BA9s	
	110V 0.50mA 220V 1.20mA 380V 1.20mA	1028-GG-110 1028-GG-210 1028-GG-310	1028-GG-109 1028-GG-209 1028-GG-309	
2.3	T-14x30mm	E-14	BA15D	
	110V 0.70mA 220V 1.50mA 380V 1.50mA	1430-GG-114 1430-GG-214 1430-GG-314	1430-GG-115D 1430-GG-215D 1430-GG-315D	
2.4	T-16x52-54mm	E-14	BA15D	
	110V 1.00mA 220V 1.80mA 380V 1.80mA	1654-GG-114 1654-GG-214 1654-GG-314	1654-GG-115D 1654-GG-215D 1654-GG-315D	

Notes:

1. All lamps are supplied with internal ballast resistors.
2. Types without internal ballast resistors are also available on request.
3. Blue, orange, red and white fluorescent, colored types are also available on special request.



SOLITRONICS ENGINEERING LTD.

TEL: (852) 2730-8145

FAX: (852) 2730-3245

E-mail: info@solitronics.com

PLASTIC LENS-END NEON SIGNAL LAMPS

Date:

18th July 2005

T-10x28mm BA9s with Internal Resistor
For 110/130V, 220/230V & 380/400V

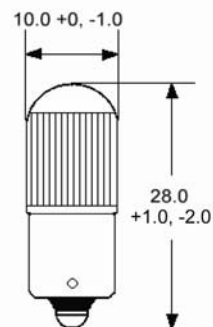
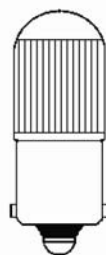
Data Sheet:

SEL-NPC-1028-X2-TM

1. PHYSICAL SIZE

Diameter: 10.0mm +0.0/-1.0mm

Length: 28.0mm +1.0/-2.0mm



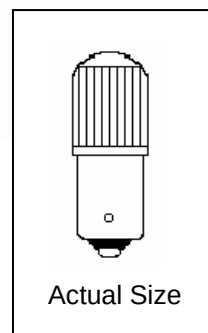
2. BASE

Miniature Bayonet
Din 49712 BA9S



3. LAMP TYPE

Neon	For clear, amber, yellow and red lens
Green-Fluorescent	For clear and green translucent lens
Blue-Fluorescent	For clear and blue translucent lens



Actual Size

4. ELECTRICAL RATING

SEL P/N	Equivalent Schneider P/N	Lamp Type	Voltage	Current ± 0.5mA	Design Life Expectancy
1028-12-N	DL1CS-7110AA	Neon	110/130V	2.0mA	10,000 hrs.
1028-12-G	DL1CS-3110AA	Green	110/130V	2.0mA	10,000 hrs.
1028-12-B	DL1CS-6110AA	Blue	110/130V	2.0mA	5,000 hrs.
1028-22-N	DL1CS-7220AA	Neon	220/230V	2.0mA	10,000 hrs.
1028-22-G	DL1CS-3220AA	Green	220/230V	2.0mA	10,000 hrs.
1028-22-B	DL1CS-6220AA	Blue	220/230V	2.0mA	5,000 hrs.
1028-32-N	DL1CS-7380AA	Neon	380/400V	1.5mA	10,000 hrs.
1028-32-G	DL1CS-3380AA	Green	380/400V	1.5mA	10,000 hrs.
1028-32-B	DL1CS-6380AA	Blue	380/400V	1.5mA	5,000 hrs.

5. APPLICATIONS

For use in 22Ømm Lighted Push-button switches & Pilot-lights (Baco, Benedikt & Jager, Breter, Izumi, Lovato, Omron, Schneider-Telemecanique, etc.)

Available for use with Pilot Light with Red, Green, Amber or Blue colour Lens-cap.

6. REMARKS:-

Also widely used as replacement lamps for indicators and lighted push-button switches of Japanese lifts (Fuji, Hitachi, Mitsubishi, etc.)

Note: Due to continuous development and improvements, all specifications are subject to change without prior notice.



SOLITRONICS ENGINEERING LTD.

TEL: (852) 2730-8145

FAX: (852) 2730-3245

E-mail: info@solitronics.com

PLASTIC LENS-END NEON SIGNAL LAMPS

Date: 22nd July 2005

T-10x28mm E10 with or without Internal Resistor
For 110/130V, 220/230V & 380/400V AC 50/60Hz

Data Sheet:

SEL-NPC-1028-X1

1. PHYSICAL SIZE

Diameter: 10.0mm + 0 / -1.0mm

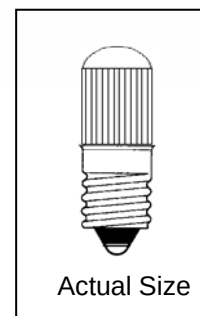
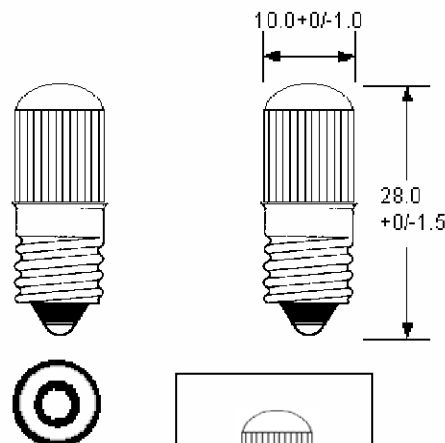
Length: 28.0mm + 0 / -1.5mm

2. BASE

Miniature Screw
IEC E10/13

3. LAMP TYPE

Neon	For clear, amber, yellow and red lens
Green-Fluorescent	For clear and green translucent lens
Blue-Fluorescent	For clear and blue translucent lens



4. ELECTRICAL RATING

SEL P/N	Equivalent USA & Schneider P/N	Lamp Type	Voltage	Current ± 0.5mA	Design Life Expectancy
1028-11-N		Neon with resistor	110/130V	2.0mA	10,000 hrs.
1028-11-G		Green with resistor	110/130V	2.0mA	10,000 hrs.
1028-11-B		Blue with resistor	110/130V	2.0mA	5,000 hrs.
1028-21-N		Neon with resistor	220/230V	2.0mA	10,000 hrs.
1028-21-G		Green with resistor	220/230V	2.0mA	10,000 hrs.
1028-21-B		Blue with resistor	220/230V	2.0mA	5,000 hrs.
1028-31-N		Neon with resistor	380/400V	1.5mA	10,000 hrs.
1028-31-G		Green with resistor	380/400V	1.5mA	10,000 hrs.
1028-31-B		Blue with resistor	380/400V	1.5mA	5,000 hrs.
B1A	NE-51	Neon only	Vs=65V Max.	0.55mA#	25,000 hrs
B1A-R	NE-51-R	Neon with Resistor	110/125V	(220K)0.3mA	25,000 hrs
B2A	NE-51-H	Neon only	Vs=95V Max.	1.60mA##	25,000 hrs
B2A-R	NE51H-R	Neon with Resistor	110/125V	(47K) 1.3mA	25,000 hrs
B2G	NE51-G	Green fluorescent only	Vs=85V Max.	1.6mA##	15,000 hrs
B2G-R	NE51GR	Green with Resistor	110/125V	(47K) 1.3mA	15,000 hrs

Use external 100K resistor on 110V and 330K resistor on 230V

Use external 33K resistor on 110V and 100K resistor on 230V

5. APPLICATIONS

Miniature Screw Based Neon signal lamps for indicators and lighted push-button switches.

6. REMARKS: -

Also widely used as replacement lamps for indicators and lighted push-button switches.



SOLITRONICS ENGINEERING LTD.

TEL: (852) 2730-8145

FAX: (852) 2730-3245

E-mail: info@solitronics.com

T-10x25mm BA9S Neon Signal Lamps with Polycarbonate Fresnel-Ring Lens-cap

Date:

18th July 2005

T-10x25mm BA9s with Internal Resistor For 110/130V, 220/240V & 380/400V

Data Sheet:

SEL-NPC-1025-X2

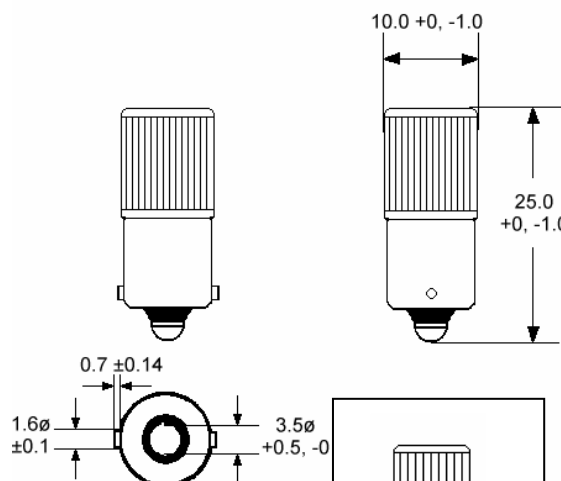
1. PHYSICAL SIZE

Diameter: 10.0mm + 0 / -1.0mm

Length: 25.0mm + 0 / -1.5mm

2. BASE

Miniature Bayonet
Din 49712 BA9S



3. LAMP TYPE

Neon	For clear, amber, yellow and red lens
Green-Fluorescent	For clear and green translucent lens
Blue-Fluorescent	For clear and blue translucent lens

4. ELECTRICAL RATING

SEL P/N	Equivalent Schneider P/N	Lamp Type	Voltage	Current ± 0.5mA	Design Life Expectancy
1025-12-N	DL1CF110AA	Neon	110/130V	2.0mA	10,000 hrs.
1025-12-G		Green	110/130V	2.0mA	10,000 hrs.
1025-12-B		Blue	110/130V	2.0mA	5,000 hrs.
1025-22-N		Neon	220/240V	2.0mA	10,000 hrs.
1025-22-G		Green	220/240V	2.0mA	10,000 hrs.
1025-22-B		Blue	220/240V	2.0mA	5,000 hrs.
1025-32-N		Neon	380/400V	1.5mA	10,000 hrs.
1025-32-G		Green	380/400V	1.5mA	10,000 hrs.
1025-32-B		Blue	380/400V	1.5mA	5,000 hrs.

5. APPLICATIONS

For use in 22ømm Lighted Push-button switches & Pilot-lights (ABB, Allen-Bradley, Baco, Benedikt & Jager, Breter, EAO, Fuji-Electric, GE Power-Controls, IDEC-Izumi, Klockner-Moeller, Kraus & Naimer, Legrand, Lovato, Omron, Rafi, Schneider-Telemecanique, Simens, Sprecher+Schuh etc.etc.)
Available for use with Pilot Lights with Red, Green, Amber or Blue Lens-cap.

6. REMARKS :-

Also widely used as replacement lamps for indicators and lighted push-button switches of Japanese lifts (Fuji, Hitachi, Mitsubishi, etc.)



SOLITRONICS ENGINEERING LTD.

TEL: (852) 2730-8145

FAX: (852) 2730-3245

E-mail: info@solitronics.com

T-10x25mm E-10 Neon Signal Lamps with Polycarbonate Fresnel-Ring Lens-cap

Date:

18th July 2005

T-10x25mm with Internal Resistor E-10 For 110/130V, 220/240V & 380/400V

Data Sheet:

SEL-NPC-1025-X1

1. PHYSICAL SIZE

Diameter: 10.0mm + 0 / -1.0mm

Length: 25.0mm + 0 / -1.5mm

2. BASE

Miniature Screw
IEC E-10/13

3. LAMP TYPE

Neon	For clear, amber, yellow and red lens
Green-Fluorescent	For clear and green translucent lens
Blue-Fluorescent	For clear and blue translucent lens

4. ELECTRICAL RATING

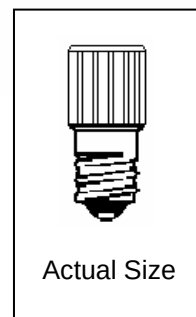
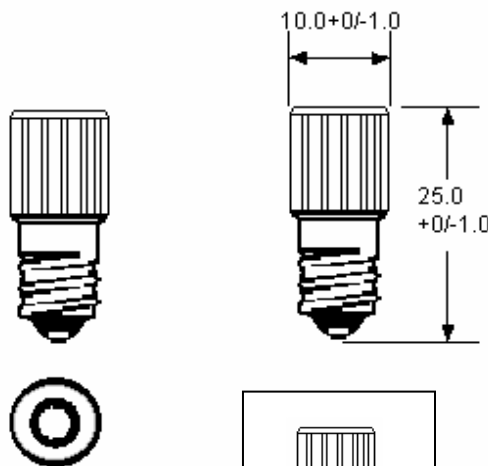
SEL P/N	Equivalent P/N	Lamp Type	Voltage	Current ± 0.5mA	Design Life Expectancy
1025-11-N		Neon	110/130V	2.0mA	10,000 hrs.
1025-11-G		Green	110/130V	2.0mA	10,000 hrs.
1025-11-B		Blue	110/130V	2.0mA	5,000 hrs.
1025-21-N		Neon	220/240V	2.0mA	10,000 hrs.
1025-21-G		Green	220/240V	2.0mA	10,000 hrs.
1025-21-B		Blue	220/240V	2.0mA	5,000 hrs.
1025-31-N		Neon	380/400V	1.5mA	10,000 hrs.
1025-31-G		Green	380/400V	1.5mA	10,000 hrs.
1025-31-B		Blue	380/400V	1.5mA	5,000 hrs.

5. APPLICATIONS

For use in 22ømm Lighted Push-button switches & Pilot-lights (ABB, Allen-Bradley, Baco, Benedikt & Jager, Breter, EAO, Fuji-Electric, GE Power-Controls, IDEC-Izumii, Klockner-Moeller, Kraus & Naimer, Legrand, Lovato, Omron, Rafi, Schneider-Telemecanique, Simens, Sprecher+Schuh, etc.)
Available for use with Pilot Lights with Red, Green, Amber or Blue Lens-cap.

6. REMARKS:-

Also widely used as replacement lamps for indicators and lighted push-button switches of Japanese lifts (Fuji, Hitachi, Mitsubishi, etc.)



Actual Size



6Øx25-38mm Fuse-Type Neon-Lamp

Date:

15th June, 2015

Group FN-Neon
Fuse Neon Series

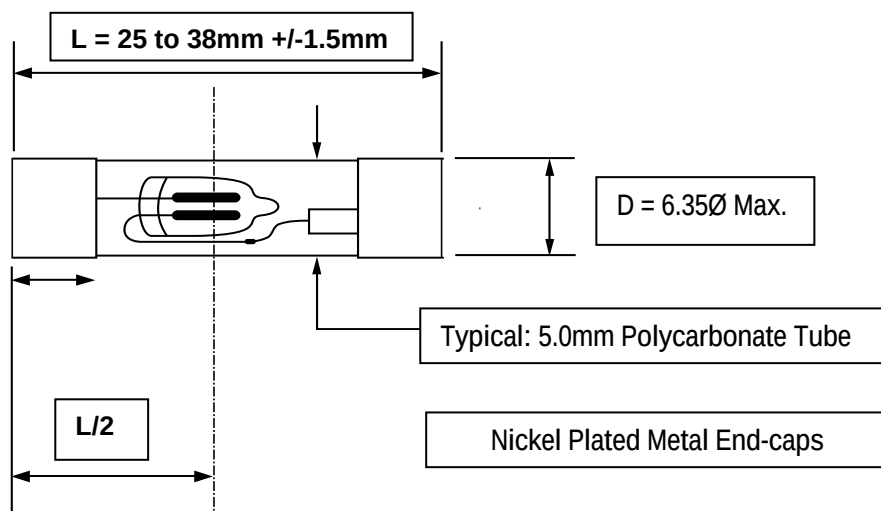
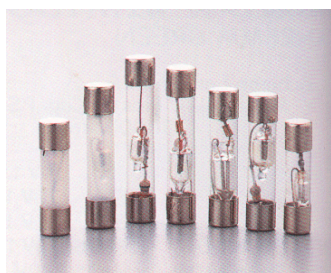
Part Number:

FN6XX-XX-XXX-XXXX

Data Sheet:

SEL-NGD-1004

FUSE-TYPE NEON WITH PLASTIC TUBE



Solitronics Part No.	Physical Size DxL	Strike-Voltage	Mains Voltage	Current	Series Resistor	Application
FN625-SB-110-100K	6Øx25mm	65V Max.	100-125V	0.50mA	100K	Neon Indicator
FN625-SB-220-330K	6Øx25mm	65V Max.	220-240V	0.50mA	330K	Neon Indicator
FN625-HB-110-33K	6Øx25mm	95V Max.	100-125V	1.50mA	33K	Neon Indicator
FN625-HB-220-100K	6Øx25mm	95V Max.	220-240V	1.50mA	100K	Neon Indicator
FN625-SB-110-100K	6Øx28mm	65V Max.	100-125V	0.50mA	100K	Neon Indicator
FN625-SB-220-330K	6Øx28mm	65V Max.	220-240V	0.50mA	330K	Neon Indicator
FN628-HB-110-33K	6Øx28mm	95V Max.	100-125V	1.50mA	33K	Neon Indicator
FN628-HB-220-100K	6Øx28mm	95V Max.	220-240V	1.50mA	100K	Neon Indicator
FN631-SB-110-100K	6Øx31mm	65V Max.	100-125V	0.50mA	100K	Neon Indicator
FN631-SB-220-330K	6Øx31mm	65V Max.	220-240V	0.50mA	330K	Neon Indicator
FN631-SB-220-820K	6Øx31mm	65V Max.	90-250V	0.20mA Typ.	820K	For Voltage Tester only
FN631-HB-110-33K	6Øx31mm	95V Max.	100-125V	1.50mA	33K	Neon Indicator
FN631-HB-220-100K	6Øx31mm	95V Max.	220-240V	1.50mA	100K	Neon Indicator
FN633-SB-110-100K	6Øx33mm	65V Max.	100-125V	0.50mA	100K	Neon Indicator
FN633-SB-220-330K	6Øx33mm	65V Max.	220-240V	0.50mA	330K	Neon Indicator
FN633-SB-220-820K	6Øx33mm	65V Max.	90-250V	0.20mA Typ.	820K	For Voltage Tester only
FN633-HB-110-33K	6Øx33mm	95V Max.	100-125V	1.50mA	33K	Neon Indicator
FN633-HB-220-100K	6Øx33mm	95V Max.	220-240V	1.50mA	100K	Neon Indicator
FN636-SB-110-100K	6Øx36mm	65V Max.	100-125V	0.50mA	100K	Neon Indicator
FN636-SB-220-330K	6Øx36mm	65V Max.	220-240V	0.50mA	330K	Neon Indicator
FN636-SB-220-820K	6Øx36mm	65V Max.	90-250V	0.20mA Typ.	820K	For Voltage Tester only
FN636-HB-110-33K	6Øx36mm	95V Max.	100-125V	0.50mA	33K	Neon Indicator
FN636-HB-220-100K	6Øx36mm	95V Max.	220-240V	0.50mA	100K	Neon Indicator
FN638-SB-110-100K	6Øx38mm	65V Max.	100-125V	0.50mA	100K	Neon Indicator
FN638-SB-220-330K	6Øx38mm	65V Max.	220-240V	0.50mA	330K	Neon Indicator
FN633-SB-220-820K	6Øx38mm	65V Max.	90-250V	0.20mA Typ.	820K	For Voltage Tester only
FN638-HB-110-33K	6Øx38mm	95V Max.	100-125V	1.50mA	33K	Neon Indicator
FN638-HB-220-100K	6Øx38mm	95V Max.	220-240V	1.50mA	100K	Neon Indicator



固 體 電 子 有 限 公 司
Solitronics Engineering Ltd.

2202, Perfect Ind. Bldg., 31 Tai Yau St., Kowloon, Hong Kong S.A.R., China

Tel : (852) 2730-8145

Fax : (852) 2730-3245

E-mail: info@solitronics.com

7Øx31-38mm Festoon Neon-Lamp for Voltage-Tester Screw-Driver

Date:

11th Mar 2016

Group FT-Neon

Festoon Neon Series

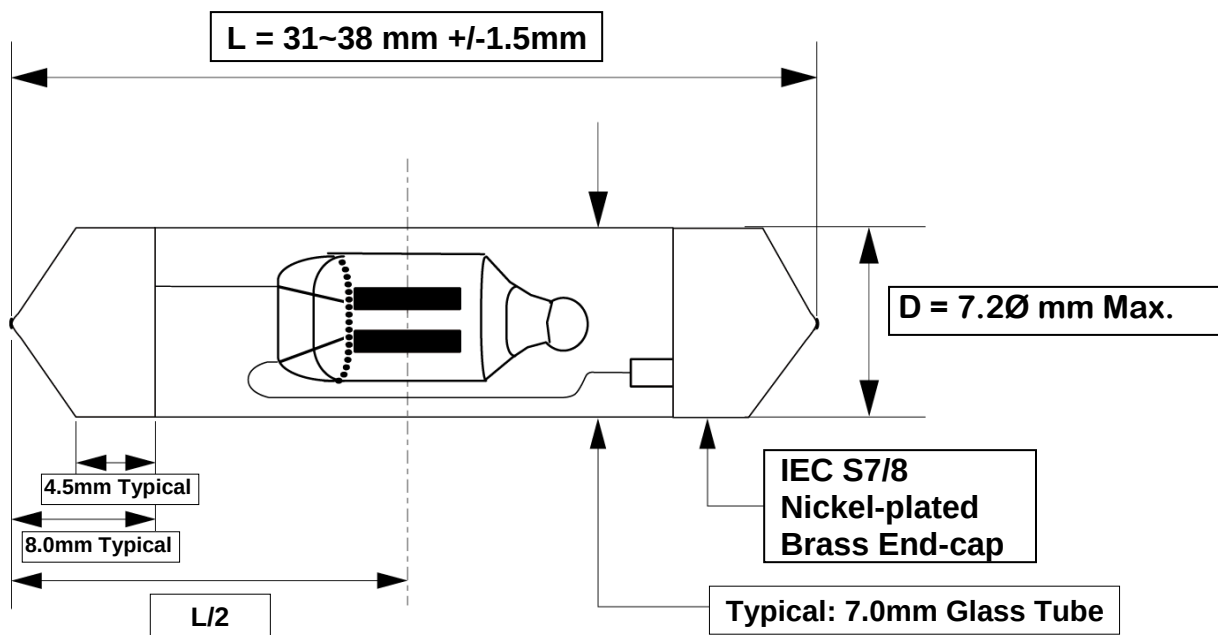
Part Number:

FT- 73X-N5SB+R820K

Data Sheet:

SEL-FTN-1000

FESTOON NEON-LAMP WITH GLASS TUBE



Solitronics Part No.	Physical Size DxL	Strike Voltage	Mains Votlage	Current	Series Resistor	Application
FT-731-N5SB+820K	7ØX31mm	65V Max.	90~250V	0.2mA	820K	For Voltage Tester only
FT-733-N5SB+820K	7ØX33mm	65V Max.	90~250V	0.2mA	820K	For Voltage Tester only
FT-736-N5SB+820K	7ØX36mm	65V Max.	90~250V	0.2mA	820K	For Voltage Tester only
FT-738-N5SB+820K	7ØX38mm	65V Max.	90~250V	0.2mA	820K	For Voltage Tester only

Remarks:

Special low-start voltage neon-lamp with extra-glow at 0.2mA for voltage tester screw driver



Solitronics T-1-1/4 Bi-Pin SB Neon lamp

SEL P/N: NE410SB-4613BP-2330

For 230V/330K/0.50mA 50K Hrs

Date (Ausgabe): 10-11-2006

T-1-1/4 Bi-Pin with 4x10 SB Neon lamp (With 0.50Øx6mm Pins and with Lead-spacing = 2.54mm)

Glimmlampen Signalfarbe

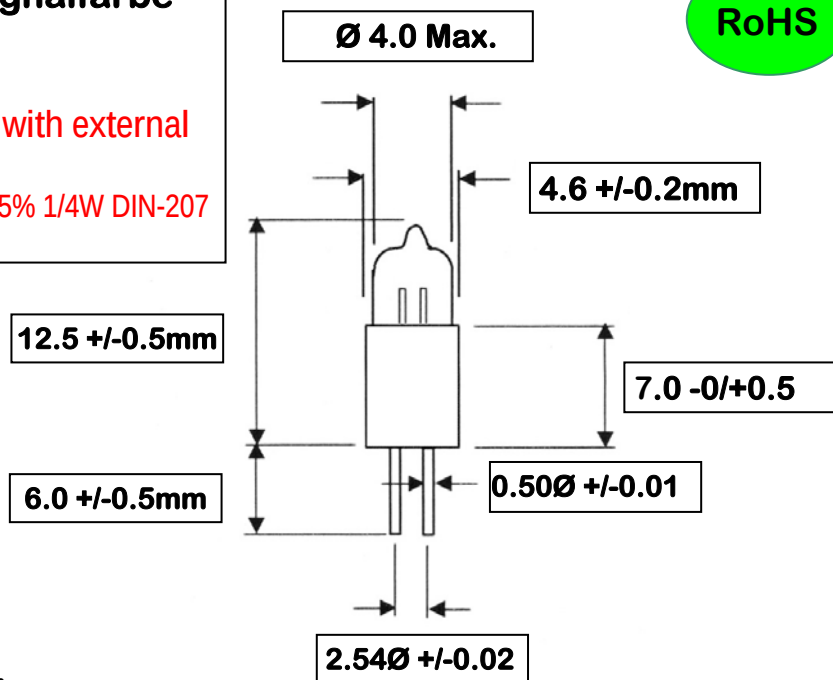
T-1-1/4 Bi-Pin

Important:

Lamp must be used with external series-resistor.

For 230V AC, use 330K 5% 1/4W DIN-207 series-resistor.

RoHS



Note: All dimensions are in mm

Standard-Brightness Baureihe normal

SOLITRONICS Part Number:	Supply Voltage/Series-Resistor/Current Nenn spannung/Vor-widerstand/Nennstrom		Strike- Voltage	Life-Hrs Lebensdauer (Mittel)
NE410SB-4613BP-2330	115V/150K/0.50mA	230V/330K/0.50mA	≤65V	50K Hrs+

Description:

4x10mm Standard Brightness Bi-Pin Neon Lamp with 0.50Øx6.0mm Pins Pin-Spacing: 2.54mm
For 115V AC 50/60Hz and 230V 50/60Hz application with operating current of 0.35-0.55mA

Remarks:	
Typical performance: 230V/330K/0.50mA 50K Hrs.+	
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Solitronics Engineering Ltd 1515, Star House, Kowloon Hong Kong

Drawing No. SEL-NE410SB-4613BP-2330

E-mail: info@solitronics.com



Solitronics T-1-1/4 Bi-Pin HB Neon lamp

SEL P/N: NE410HB-4613BP-2100

For 230V/100K/1.70mA 15K Hrs

Date (Ausgabe): 10-11-2006

T-1-1/4 Bi-Pin with 4x10 HB Neon lamp (With 0.50Øx6mm Pins and with Lead-spacing = 2.54mm)

Glimmlampen Signalfarbe

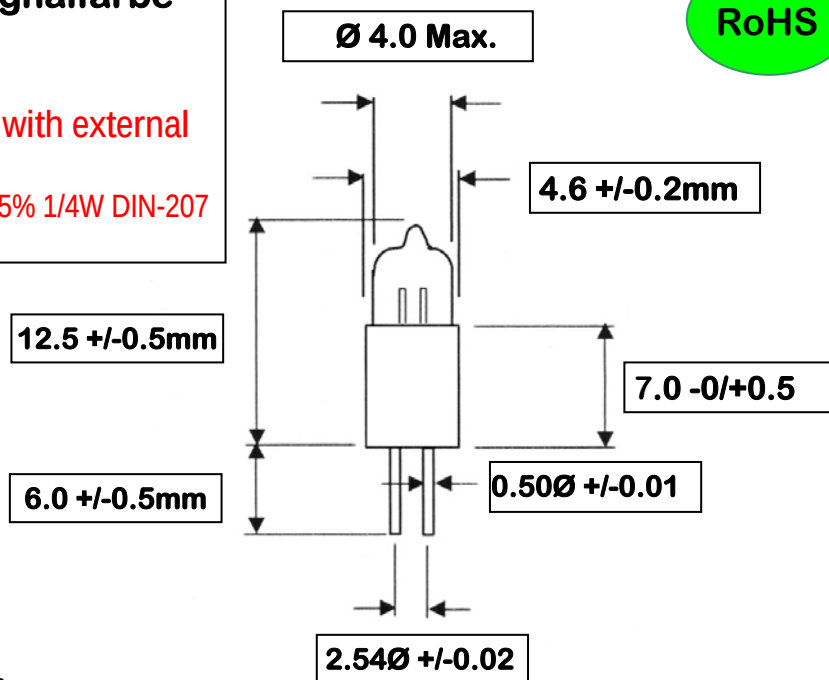
T-1-1/4 Bi-Pin

Important:

Lamp must be used with external series-resistor.

For 230V AC, use 100K 5% 1/4W DIN-207 series-resistor.

RoHS



Note: All dimensions are in mm

High-Brightness Baureihe superhell

SOLITRONICS Part Number:	Supply Voltage/Series-Resistor/Current Nenn spannung/Vor-widerstand/Nennstorm		Strike- Voltage	Life-Hrs Lebensdauer (Mittel)
NE410HB-4613BP-2100	115V/33K/1.70mA	230V/100K/1.70mA	≤95V	15K Hrs+

Description:

4x10mm High Brightness Bi-Pin Neon Lamp with 0.5Øx6.0mm Pins Pin-Spacing: 2.54mm
For 115V AC 50/60Hz and 230V 50/60Hz application with operating current of 1.60-1.80mA

Remarks:	Typical performance: 230V/100K/1.70mA 15K Hrs.
Index	

Solitronics Engineering Ltd 1515, Star House, Kowloon Hong Kong

Drawing No. SEL-NE410HB-4613BP-2100

E-mail: info@solitronics.com



Solitronics T-1-1/4 Bi-Pin Green

SEL P/N: NE410G2X-4613BP-2150

For 230V/150K/1.20mA 15K Hrs

Date (Ausgabe): 10-11-2006

T-1-1/4 Bi-Pin with 4x10 Green fluorescent Lamp (With 0.5Øx6mm Pins and with Lead-spacing: 2.54mm)

Glimmlampen Signalfarbe T-1-1/4 Bi-Pin

Important:

Lamp must be used with external
series-resistor.

For 230V AC use 120K 5% 1/4W DIN-207
series-resistor

12.5 +/-0.5mm

6.0 +/-0.5mm

Ø 4.0 Max.

4.6 +/-0.2mm

7.0 -0/+0.5

0.50Ø +/-0.01

2.54Ø +/-0.02

RoHS

Note: All dimensions are in mm

Green-fluorescent Signalfarbe Grün

SOLITRONICS Part Number:	Supply Voltage/Series-Resistor/Current Nenn spannung/Vor-widerstand/Nennstrom		Strike- Voltage	Life-Hrs Lebensdauer (Mittel)
NE410G2X-4613BP-2150	115V/47K/1.20mA (Typical)	230V/120K/1.20mA (Typical)	≤85V	15K Hrs+

Description:

4x10mm Green Fluorescent Lamp with 0.5Øx6.0mm Pins Pin-Spacing: 2.54mm
For 115V AC 50/60Hz and 230V 50/60Hz application with operating current of 1.05-1.25mA

Remarks:	
Typical performance: 230V/150K/1.20mA 15K Hrs.	
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Solitronics Engineering Ltd 1515, Star House, Kowloon Hong Kong

Drawing No. SEL-NE410G2X-4613BP-2150

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