

Technical & Order Information - Indicators

The majority of Arcoelectric indicator lights can be supplied with alternative light sources:

Neon, Fluorescent, Filament lamp or LED.

NEON and FLUORESCENT LAMPS

Colors

Available with Red, Amber, Green or Clear lenses.

Maximum striking voltages

Standard brightness types 65Vac 90Vdc.

High brightness types 85Vac 135Vdc.

High brightness types are usually fitted.

Life

Typically 25,000 hours (Green fluorescent lamps 20,000 hours). (Measured to a point when the light output of the lamp is half its original level.)

The end of life for a neon lamp is not usually a sudden failure.

False signals due to long wiring

It is possible for neon or fluorescent tubes to glow when they should be off. The false signal is caused by the capacitance effect of fairly long wiring to the indicator being adjacent to other live cables. This effect can be prevented in most cases by fitting a 100k resistor across the supply wires close to the indicator assembly.

MATERIALS

Moulded bodies and bases

Metal bodies and bezels

Lenses

Terminals (most types)

Terminals (exceptions)

Threaded metal nuts

Other fixings

Nylon 6.6

Chrome plated brass (except #)

Polycarbonate

Brass (electro-tin plated)

Brass (flash silver* or nickel** plated)

Brass (nickel plated on 0275/7)

Call factory for details

* R9, 0061, 0062, 0430, 0480, 1090, 1091, 6030, 7030, 8630, 8580

** # 3130, 3160, 3161, 3221 have nickel plated terminals with steel screws and plated polyamide bezel trims

SYMBOLS



Terminals

C 6.3, H 4.8, K 2.8



Wire leads

200mm long Standard



Solid wires

LED only



Panel hole size



Panel thickness



Temperature rating

FILAMENT LAMPS

Colors

Available with Red, Amber, Green, Clear or Blue lenses.

LEDs - DC

Colors

Red, Yellow, Green, Blue and White.

Voltage

Basic voltage 2.0/2.2V. Some items are available with integral resistors for 12V use.

For details of resistors required for higher voltages, please call the factory.

Current

Maximum continuous forward current 20mA.

Life

>100,000hrs

LEDs - AC

Colors

Red, Yellow, Green, Blue and White.

Voltage

Rated up to 230V ac, suitable for use at 110V and 230V ac.

Current

<3mA

Life

>100,000hrs

TEMPERATURE RATING

Authority	with Terminals	with Wire leads	
		PVC	SILICONE
European	T125°C	T105°C	T125°C
UL	T65/75°C	T65/75°C	



ORDER FORMAT

NL 589 WL 2G

SERIES CODES MODEL CODES TERMINAL CODES LAMP / VOLTAGE / COLOR CODES

SERIES CODES	MODEL CODES	TERMINAL CODES	LAMP TYPE VOLTAGE & COLOR			
			CODES for FL & LH	CODES for LE		CODES for NL
FL Incandescent Lamps	67	WL Wire Leads	Incandescent Lamps AC or DC	LEDs DC	LEDs AC	Neon Lamps AC or DC
	81					
	145					
	177					
	180 AA/BB 195 00/BB					
	196					
	233					
	234					
	245					
	273 /LL					
275 /C						
276						
277						
278						
568 A/B	C 6.3 Tab					
569						
579						
581						
582						
586						
589						
1041	H 4.8 Tab					
1045						
2950						
2951						
2760						
2820						
2821						
2870						
3130	T Solder					
3160						
3161						
3221						
LH Lamp Holders 6, 12, 24V only	61					
	62					
	63					
	67					
	382					
	392					
	692					
			For LH, if lamp not required, state "COLOR" only			

For LH, if lamp not required, state "COLOR" only

Indicator Lights (Neon, LED and Filament Lamp)



Approvals shown for neon versions only



RoHS compliant

- ▶ Neon, LED, mains LED or filament lamp
- ▶ Bezel sizes from 6.7 to 16.3mm dia
- ▶ Red, amber, green and clear lenses
- ▶ Red, yellow, green, blue and white LEDs
- ▶ Wide choice of styles

ORDER FORMAT example

NL 145 C 2R

SERIES CODE MODEL CODE TERMINAL CODE VOLTAGE & COLOR
see p66

SERIES	MODEL	TERM	VOLTAGE, COLOR, TECHNICAL INFORMATION see p66			
FL Filament	145	C 6.3		5.8		
NL Neon				3.0max		
LE LED (DC)				page 66		
LE LED (AC)					14.0 32.5 1.5 0.9	Ø6.7
FL Filament	1041 Chrome bezel	L		6.3		
NL Neon		W		6.3max		
LE LED (DC)				page 66		
LE LED (AC)					10.2 4.3	Ø7.6
FL Filament	1045 Chrome bezel available	L		6.3		
NL Neon		W		10.0max		
LE LED (DC)				page 66		
LE LED (AC)					22.6 4.3	Ø7.6
FL Filament	245 Chrome bezel available	L		7.1		
NL Neon		W		6.3max		
LE LED (AC)				page 66		
LE LED (AC)					22.5 4.2	Ø7.6
FL Filament	2950 Chrome bezel available	L		8.0		
NL Neon				0.8-1.6		
LE LED (AC)				page 66		
LE LED (AC)					12.6 27.0 3.9 12.6 9.0	Ø7.5
FL Filament	195 BB	L		8.0		
NL Neon		C 6.3		0.8-3.0		
				page 66		
					12.5 13.7 7.9 11.0 18.0 9.5	Ø9.5