

October 2005

Technical Data & Specifications

Standards and Certifications

- CE 60947-5-1
- UL 508 — File #E131568
- cUL C22.2 No. 14 — File #E131568

Ingress Protection

- Stacklight Base and Light Units: IP65, NEMA 4, 4X and 13
- Alarm Units: IP20, NEMA 1

Electrical Shock Protection

- Stacklight Base and Light Unit: IP2X
- Alarm Units: IP0X

Technical Data and Specifications

Mechanical Ratings

- Shock (IEC 68-2-27): 11 mS, 15g
- Vibration (IEC 68-2-6): 10 sweeps 10 – 150 Hz, 2g
- Bump (IEC 68-2-29): 1000 pulses, 6 mS, 15g

Climate Conditions

- Operating: maximum 104°F (40°C) at 95% RH, Temperature -4° to 140°F (-20° to 60°C)
- Storage: Temperature -40° to 176°F (-40° to 80°C)

Materials

- Cover: Polycarbonate
- Lenses: Polycarbonate
- Stacklight Base: Nylon
- Extension Tubes: Aluminum
- Mounting Base: Zinc die cast

Terminals

- 14 – 30 AWG (2.5 – 0.05 mm²) for single conductors and 18 – 26 AWG (0.75 – 0.14 mm²) for two conductors of the same size. Do not mix solid and stranded wire in the same terminal.
- Recommended tightening torque is 4.4 – 5.3 lb-in (0.5 – 0.6 Nm).

Electrical Ratings

- Insulation Voltage (Ui): 690V
- Operational Voltage (Ue): 250V
- Impulse Withstand Voltage (Uimp): 1.5 kV

Bulb Specifications

- Incandescent Lamp Type: BA15d
- Maximum Lamp Wattage: 6W
- Bulbs — Average Life:
 - Incandescent: 7,000 to 12,000 hrs.
 - Xenon Flasher: 20,000 hrs.
 - LED: 60,000 to 100,000 hrs.

LED/Incandescent Comparison

Incandescent Lamps

- Average operating life of 7,000 hours
- Each lamp can be used with any colour lens
- Low cost results in short term savings

LED Lamps

- Average operating life of 100,000 hours
- Low power consumption
- Extended life results in long-term savings

Application Data

Table 1-1. E26 Stacklight Incandescent Application Data

Type of Light	Lamp Used	Approximate Current, mA per Light	Theoretical Lamp Life, Hours as Applied
12V	BA15d	417	7,000
24V	BA15d	208	7,000
48V	BA15d	104	7,000
110 – 140V	BA15d	36 – 50	7,000
220 – 260V	BA15d	23 – 27	12,000

Table 1-2. E26 Xenon Flasher Application Data

Type of Light	Lamp Used	Approximate Current, mA per Light	Theoretical Lamp Life, Hours as Applied
12V	DC	460 mA	20,000
	AC	780 mA	20,000
24V	DC	190 mA	20,000
	AC	320 mA	20,000
48V	DC	100 mA	20,000
	AC	150 mA	20,000
120V	AC	60 mA ^①	20,000
240V	AC	30 mA ^①	20,000

^① Represents average current draw, 1.6A peak for 120V and 0.8A peak at 240V.

Table 1-3. E26 LED Application Data

Type of Light	Colour	Cluster LED Approximate Current, mA at Rated Volts	Cylindrical LED Approximate Current, mA at Rated Volts	Theoretical Lamp Life, Hours as Applied
E26 Continuous/Flashing Stacklight LED				
12V AC/DC	Red	92	92	100,000
	Amber	92	92	100,000
	Yellow	92	92	100,000
	Green	60	60	80,000
	Blue	60	60	60,000
	White	60	60	60,000
24V AC/DC	Red	47	47	100,000
	Amber	47	47	100,000
	Yellow	47	47	100,000
	Green	59	59	80,000
	Blue	59	59	60,000
	White	59	59	60,000
48V AC/DC	Red	25	25	100,000
	Amber	25	25	100,000
	Yellow	25	25	100,000
	Green	18	18	80,000
	Blue	31	31	60,000
	White	31	31	60,000
60V AC/DC	Red	25	25	100,000
	Amber	25	25	100,000
	Yellow	25	25	100,000
	Green	18	18	80,000
	Blue	17	17	60,000
	White	17	17	60,000
120V AC/DC	Red	24	24	100,000
	Amber	24	24	100,000
	Yellow	24	24	100,000
	Green	17	17	80,000
	Blue	16	16	60,000
	White	16	16	60,000

Note: Published theoretical lamp lives are based on ideal laboratory conditions and should be used for comparison only. Actual life may be shorter due to various application conditions.

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