The LP-Series Illuminated Indicators are the perfect complement to the aesthetics, reliability and performance of our L-Series rocker switches. As a critical safety feature, the illumination alerts the operator of essential system functions or malfunctions, such as: Oil Pressure, High Temperature, Transmission or other fluid levels, Parking Brake or General System confirmations. The L-Series styling assures seamless integration into most any dashboard panel.

**Product Highlights:**
- Vibration, Shock, and Thermoshock Resistant
- 12 or 24 Volts
- Laser Etched or Lens Illumination
- IP67 Sealing

**Typical Applications:**
- On/Off-Highway Equipment
- Agricultural Equipment
- Construction Equipment
**Electrical**

**Terminals**
- Brass or copper/silver plate
- 3/16” (4.76mm) & 1/4” (6.3mm)
- Quick Connect terminations standard.

**Lighted**
- Incandescent - rated 10,000 hours
- LED - rated 100,000 hours 1/2 life
  (LED is internally ballasted for voltages to 24VDC)

**Physical**

**Seals**
- Insert, base & bracket are sealed.

**Base**
- Nylon 66 GF rated to 85°C with a flammability rating of 94VO.

**Insert**
- Polycarbonate rated at 100°C.

**Connector**
- Nylon 66 rated at 85°C. Polarized

**Markings**
- Over 1000 pad printed or laser etched legends available

**Bracket**
- Nylon 66 GF rated to 85°C

**Environmental**

**Terminals**
- IP67, representing an index of protection as applied to electrical equipment in accordance with IEC 529, BS 5490, DIN 400 50 & NFC 20 010.

**Corrosion Resistance**
- Mixed Flowing Gas MFG Class III per ASTM B-827 & B-845, Method H, with 3 years exposure.

**Operating Temperature**
- -40°C to +85°C

**Vibration 1**
- Per Mil-Std 202F, Method 204D Test Condition A 0.06 DA or 10G’s 10- 500 Hz. Tested with VCH connector. Test criteria - No loss of circuit during test and pre and post test contact resistance.

**Vibration 2**
- Resonance search
- 24-50 Hz 0.40 DA
- 50-2000 ±10 G’s peak
- Results Horizontal Axis 3-5 G’s max.
- Random
  - 24 Hz 0.06 PSD-Gsq/Hz
  - 60 Hz 0.50
  - 100 Hz 0.50
  - 200 Hz 0.025
  - 2000 Hz 0.025
- No loss of circuit during test; <10µ chatter.

**Shock**
- Per Mil-Std 202F, Method 213B, Test Condition K @ 30G’s. Tested with VCH connector. Test criteria - No loss of circuit during test, pre, and post test contact resistance.

**Salt Spray**
- Per Mil-Std 202F, Method 101D, Test Condition A, 48 Hrs.

**Thermal Shock**
- Per Mil-Std 202F, Method 107F, Test Condition A, -55°C to 85°C. Test criteria - pre and post test contact resistance.

**Moisture Resistance**
- Per Mil-Std 202F, Method 106F, Test Criteria - pre and post test contact resistance.

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*Manufacturer reserves the right to change product specification without prior notice.*
LP-1 H R R 5 - 9 A A Y2 - 1 DU

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### 2 TERMINATION
1. .250 (8.35) x .032 (0.51) Quick Connect
2. .187 (4.75) x .032 (0.51) Quick Connect

### 3 ILLUMINATION
LAMPS ILLUMINATION LAMP WIRED TO TERMINALS

| A | 1 | -- | 10 (+) | 9 (-) |
| B | 1 | -- | 10 (+) | 9 (-) |
| C | 1 | -- | 12 (+) | 11 (-) |
| D | 2 | -- | 12 (+) | 11 (-) |
| E | 1 & 2 | Parallel | 10 (+) | 9 (-) |
| H | 1 & 2 | Series | 10 (+) | 9 (-) |

LAMP 1 LOCATED ABOVE TERMINALS 9 & 10 END OF BRACKET.
LAMP 2 LOCATED ABOVE TERMINALS 11 & 12 END OF BRACKET.
POSITIVE (+) AND NEGATIVE (-) SYMBOLS APPLY TO LED LAMPS ONLY.

### 4, 5 LAMP (same coding for both selections)

Selection 4: specifies lamp 1 located above terminals 10 (+) & 9 (-).
Selection 5: specifies lamp 2 located above terminals 12 (+) & 11 (-).

- No lamp (position 5 only)
- Incandescent
  - 4VDC: L
  - 6VDC: M
  - 12VDC: N
  - 24VDC: P
- LED
  - 2VDC: F
  - 6VDC: G
  - 12VDC: H
  - 24VDC: J

### 6 Bracket Color
5. Black

### 7 INSERT COLOR 1, 2

- Painted Black - Laser Etch
  - A Clear (Transparent)
  - B White (Translucent)
  - C Red (Translucent)
  - D Amber (Translucent)
  - E Green (Translucent)
  - F Blue (Translucent)

### 8, 9 STYLE (same coding for both selections)

- Not Painted (used with Insert Colors A-F)
- 5 Clear Laser Etch Background Color (used with Insert Color 9)
  - A White Laser Etch Background Color (used with Insert Color 9)

### 10 LEGEND OVER LAMP 1
00. No legend
Laser Etched or Body Legends
For legend options, visit us at carlingtech.com

### 11 LEGEND ORIENTATION
0. No legend
1. Orientation 1
2. Orientation 2
3. Orientation 3
4. Orientation 4

### 12 LEGEND OVER LAMP 2
00. No legend
Laser Etched or Body Legends
For legend options, visit us at carlingtech.com

**Notes:**
1. To order separately, specify LPC and selection 7 code. Ex: LPC-9
2. For LEDs, insert color must be clear, white or match color of LED.
3. For connector, specify part number LC2-01 (.187 tabs), LC3-01 (.250 tabs).
Authorized Sales Representatives and Distributors

Click on a region of the map below to find your local representatives and distributors or visit www.carlingtech.com/findarep.

About Carling

Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

To view all of Carling’s environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications
Worldwide Headquarters
Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Phone: 860.793.9281    Fax: 860.793.9231
Email: sales@carlingtech.com

Northern Region Sales Office: nrsm@carlingtech.com
Southeast Region Sales Office: sersm@carlingtech.com
Midwest Region Sales Office: mrsm@carlingtech.com
West Region Sales Office: wrsm@carlingtech.com
Latin America Sales Office: lar@carlingtech.com

Asia-Pacific Headquarters
Carling Technologies, Asia-Pacific Ltd.,
Suite 1607, 16/F Tower 2, The Gateway,
Harbour City, 25 Canton Road,
Tsimshatsui, Kowloon, Hong Kong
Phone: Int + 852-2737-2277    Fax: Int + 852-2736-9332
Email: sales@carlingtech.com.hk

Shenzhen, China: shenzhen@carlingtech.com
Shanghai, China: shanghai@carlingtech.com
Pune, India: india@carlingtech.com
Kaohsiung, Taiwan: taiwan@carlingtech.com
Yokohama, Japan: japan@carlingtech.com

Europe | Middle East | Africa Headquarters
Carling Technologies LTD
4 Airport Business Park, Exeter Airport,
Clyst Honiton, Exeter, Devon, EX5 2UL, UK
Phone: Int + 44 1392.364422    Fax: Int + 44 1392.364477
Email: ltd.sales@carlingtech.com

Germany: gmbh@carlingtech.com
France: sas@carlingtech.com