LC25T In-Line Touch Switch

Features



- In-line capacitive touch switch with M12 connectors
- On/Off or PWM Control Models available
- Low profile, rugged, water-resistant design
- Perfect for DC-powered devices
- Rated for up to 30 V DC
- Capability to dim lights using PWM output
- Models available with up to 4A maximum output current

IMPORTANT: Read the following instructions before operating the light. Please download the complete LC25T In-Line Touch Switch technical documentation, available in multiple languages, from www.bannerengineering.com for details on the proper use, applications, Warnings, and installation instructions of this device.

IMPORTANT: Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los LC25T In-Line Touch Switch, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

IMPORTANT: Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des LC25T In-Line Touch Switch sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

Models

Models	Model Function	Power Applied to LC25T	10%-90% PWM Output[1]	LC25T Output On 100%	Used With
LC25T-AL2RGQ	On/Off	Red	N/A	Green	2-wire DC Devices
LC25T-AP1RBGQ	3-Wire PWM Control		Blue		3-Wire PWM Controlled Devices
LC25T-AP2RBGQ	2-Wire PWM Control		Blue		2-wire PWM Controlled Devices

Device Configuration

Device Interface	Function	Color	Applicable Models
 Single Touch	**ON/OFF** A single touch in the off-state turns the device on. A single touch in the on-state turns the device off.	Red = Off Green = On	All Models
 Touch and Hold	**PWM Control** Touch and hold to increase the PWM Output from 0% to 100%.[2] Continue to touch and hold to decrease the PWM Output from 100% to 0%.	Red = Off; 0% PWM Output Blue = On; 10-90% PWM Output Green = On; 100% PWM Output	2-Wire PWM Models 3-Wire PWM Models (See "Compatible Devices" on page 1)
 Double Touch	**100% ON** Double touch to return to 100% PWM Output.	Green = On; 100% PWM Output	2-Wire PWM Models 3-Wire PWM Models (See "Compatible Devices" on page 1)

Compatible Devices

On/Off Devices

[1] Intensity corresponds to PWM output.
[2] The device saves the last PWM state when turned off. When turned back on again with a single touch, it returns to the last saved state.

Original Instructions
31-Mar-26

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231078
p/n: 231078 Rev. A

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

The LC25T models with On/Off function are compatible with any type of DC device that requires constant power on the Brown (Pin 1) and Blue (Pin 3) wires.

2-Wire PWM Lights

The LC25T works with special models of the following 2-Wire PWM LED lights:

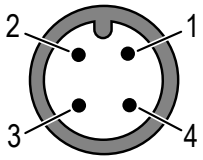
- WLS15 Single Color LED Strip Light
- WLH60 High Temperature LED Light

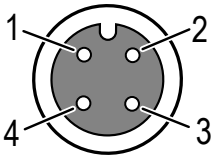
3-Wire PWM Lights

The LC25T works with special models of the following 3-Wire PWM LED lights. These models include **PWM** in the model key:

- WLS27 LED Strip Light, P/N 189556
- WLS28-2 LED Strip Light, P/N 179493
- HLS27 Hazardous Area LED Strip Light, P/N 197949
- WLB92 DC LED Strip Light, P/N 183983
- WLA LED Area Light, P/N 179494
- WLC90 Heavy Duty LED Light, P/N 179495
- WLC60 Heavy Duty LED Light, P/N 179496
- WLB32 DC LED Strip Light, P/N 176313

Wiring

Male - Input	Pin	Wire Color	Connection
	1	Brown	12 V DC to 30 V DC
	3	Blue	DC common
	4	Black	Not used
	2	White	Not used

Female - Output	Pin	Wire Color	Connection		
			On/Off (L2 Models)	2-Wire (P2 Models)	3-Wire (P1 Models)
	1	Brown	12 V DC to 30 V DC	Pulse width modulation (PWM) output	12 V DC to 30 V DC
	3	Blue	DC common	DC common	DC common
	4	Black	Not used	Not used	Pulse width modulation (PWM) output
	2	Not Used	Not used	Not used	Not used

Specifications

Supply Voltage
12 V DC to 30 V DC
See electrical characteristics on product label

Supply Current
9 mA typical at 24 V DC (exclusive of load)
16 mA maximum (exclusive of load)

Maximum Pass-Through Current
4 A

Maximum PWM Output Current
4 A

Operating Temperature
–40 °C to +60 °C (–40 °F to +140 °F)
Storage Temperature: –40 °C to +70 °C (–40 °F to +158 °F)

Environmental Rating
IP65, IP67, IP68

Vibration and Mechanical Shock
Vibration: 10 Hz to 55 Hz, 1.0 mm peak-to-peak amplitude per IEC 60068-2-6
Shock: 15G 11 ms duration, half sine wave per IEC 60068-2-27
Impact: IK06 (IEC EN 60068-2-75)

Construction
Connector Body: PVC translucent black
Coupling Material: Nickel-plated brass

Mounting
See mounting accessories

Connections
Integral 4-pin M12 male/female quick-disconnect connector

PWM Frequency
500 Hz

Dimming Range
0%-100% in 10% increments

Certifications

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

Turck Banner LTD Blenheim House
Blenheim Court
Wickford, Essex SS11 8YT
GREAT BRITAIN

Required Overcurrent Protection

WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.
Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.
Supply wiring leads < 24 AWG shall not be spliced.
For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

FCC Part 15 Class B for Unintentional Radiators

(Part 15.105(b)) This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in

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accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

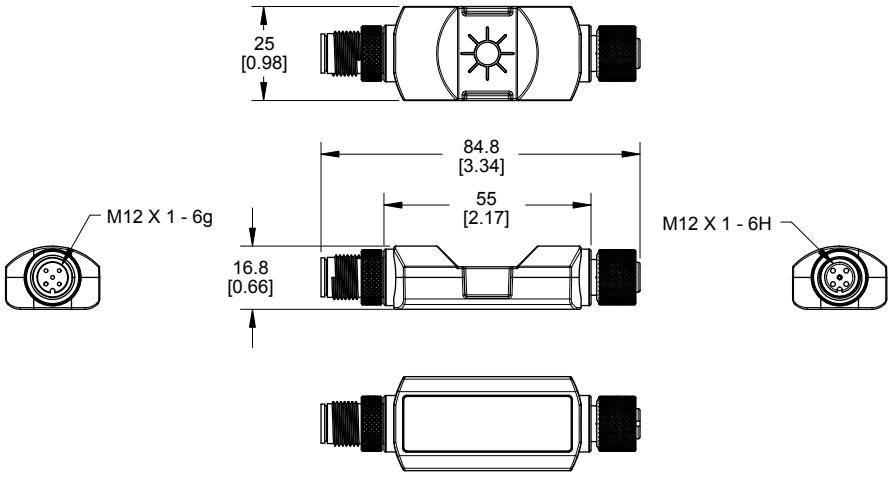
Industry Canada ICES-003(B)

This device complies with CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions: 1) This device may not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.

Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

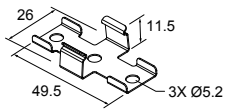


Accessories

Mounting Accessories

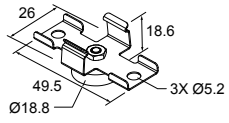
LMBLC25T

- Stainless steel clip bracket
- Includes 1 clip bracket and 2 plastic spacers
- Clearance hole for M5 hardware



LMBLC25TMAG

- Magnetic mounting bracket for attachment to steel and iron surfaces



Power Supplies

PSW-24-1

- 24 V DC, 1 A Class 2 UL Listed power supply
- 100 V AC to 240 V AC 50/60 Hz input
- 2 m (6.5 ft) PVC cable with M12 quick disconnect
- Includes Type A (US, Canada, Japan, Puerto Rico, Taiwan), Type C (Germany, France, South Korea, Netherlands, Poland, Spain, Turkey), Type G (United Kingdom, Ireland, Singapore, Vietnam), and Type I (China, Australia, New Zealand) AC detachable input plugs



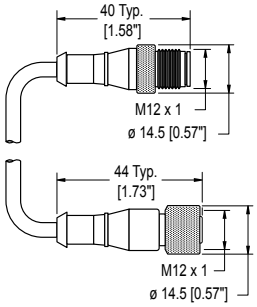
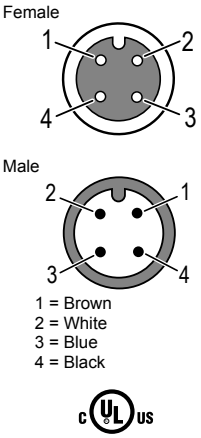
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PSD-24-4

- 90 to 264 V AC 50/60 Hz input
- Includes a 1.8 m (6 ft) US-style 5-15P input plug
- 24 V DC UL Listed Class 2 M12 connector output
- 4 A total current



Cordsets

4-Pin Double-Ended M12 Female to M12 Male Cordsets				
Model	**Length**	**Style**	**Dimensions**	**Pinout**
MQDEC-401SS	0.31 m (1 ft)	Male Straight/Female Straight		
MQDEC-403SS	0.91 m (2.99 ft)			
MQDEC-406SS	1.83 m (6 ft)			
MQDEC-412SS	3.66 m (12 ft)			
MQDEC-415SS	4.58 m (15 ft)			
MQDEC-420SS	6.10 m (20 ft)			
MQDEC-430SS	9.14 m (30.2 ft)			
MQDEC-450SS	15.2 m (49.9 ft)			

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For patent information, see www.bannerengineering.com/patents.

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