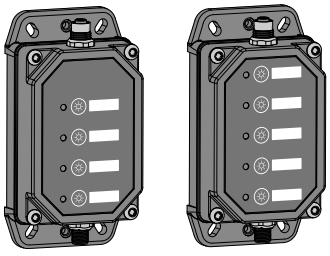
LCA130T Andon Control Box

Features



- Rugged, cost-effective, and easy-to-install Andon Control Box
- Integral three, four, or five capacitive touch button controller with programmable LEDs and discrete outputs
- Programmable using Banner's Pro Editor software and Pro Converter Cable
- Two M12 connectors for added Andon application flexibility and easy installation
- Up to five discrete outputs available to pass up to a total of 4 amps

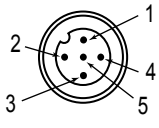
Models

Model Name	Activation Method	Number of Touch Buttons	Connector
LCA130T3Q	Touch	3 Buttons	Input: Integral 5-pin M12 male quick-disconnect connector Output: Integral 5-pin M12 female quick-disconnect connector
LCA130T4Q		4 Buttons	
LCA130T5Q		5 Buttons	Input: Integral 5-pin M12 male quick-disconnect connector Output: Integral 8-pin M12 female quick-disconnect connector

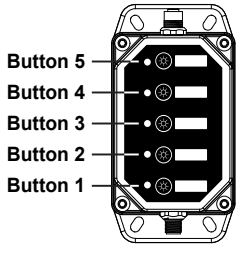
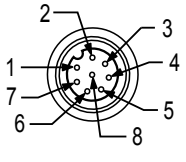
Switch Diagram

Tap or press-to-hold one or more of the buttons to activate a programmed color and animation function.

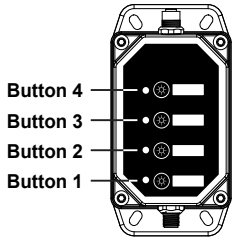
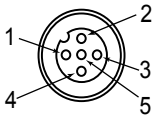
Input Pinout - All Models

5-pin M12 Male Connector	Pin	Wire Color	Wiring Description
	1	Brown (bn)	18 V DC to 30 V DC
	2	White (wh)	Not used
	3	Blue (bu)	DC common (GND)
	4	Black (bk)	Not used
	5	Gray (gy)	Use to configure with the Pro Editor Configuration software

Output Pinout - 5-Button Switch Control

5-Button Switch Control	8-pin M12 Female Connector	Pinout Key
		Pin 1 = Button 3 Pin 2 = Button 4 Pin 3 = Not used Pin 4 = Button 1 Pin 5 = Button 2 Pin 6 = Button 5 Pin 7 = DC common Pin 8 = Not used

Output Pinout - 4-Button Switch Control

4-Button Switch Control	5-pin M12 Female Connector	Pinout Key
		Pin 1 = Button 2 Pin 2 = Button 3 Pin 3 = DC common Pin 4 = Button 1 Pin 5 = Button 4

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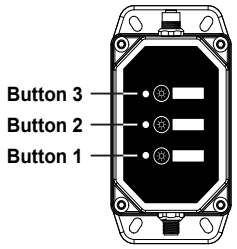
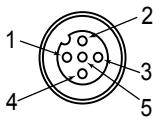
Output Pinout - 3-Button Switch Control

3-Button Switch Control	5-pin M12 Female Connector	Pinout Key
		Pin 1 = Button 2 Pin 2 = Button 3 Pin 3 = DC common Pin 4 = Button 1 Pin 5 = Not used

Specifications

Supply Voltage and Current

18 V DC to 30 V DC

50 mA maximum current at 18 V DC (exclusive of load)

Supply Protection Circuitry

Protected against transient voltages

Response Time

Power-Up Delay: 500 milliseconds maximum

Input Response: 40 milliseconds maximum

Output Response: 300 milliseconds maximum

Output Rating

4A maximum load (combined or on a single output)

Connections

Models with a quick disconnect require a mating cordset

Construction

Polycarbonate

Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell)

Meets IEC 60068-2-27 requirements (Shock: 15G 11 ms duration, half sine wave)

Pro Editor Configuration

Connection to Pro Editor software enables control of:

- **Animation:** Off, Steady, Flash, Two Color Flash
- **Color:** Green, Red, Yellow, Blue, Cyan, Magenta, Amber, Rose, Lime Green, Orange, Sky Blue, Violet, Spring Green
- **Intensity:** Off, Low, Medium, High
- **Speed:** Slow, Standard, Fast
- **Pattern:** Normal, Strobe, 3-Pulse, SOS, Random

Pro Converter Cable required to interface between PC and indicator, see Accessories

Operating Conditions

–40 °C to +50 °C (–40 °F to +122 °F)

95% at +50 °C maximum relative humidity (non-condensing)

Environmental Rating

IP65

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	1.0	30	0.5

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

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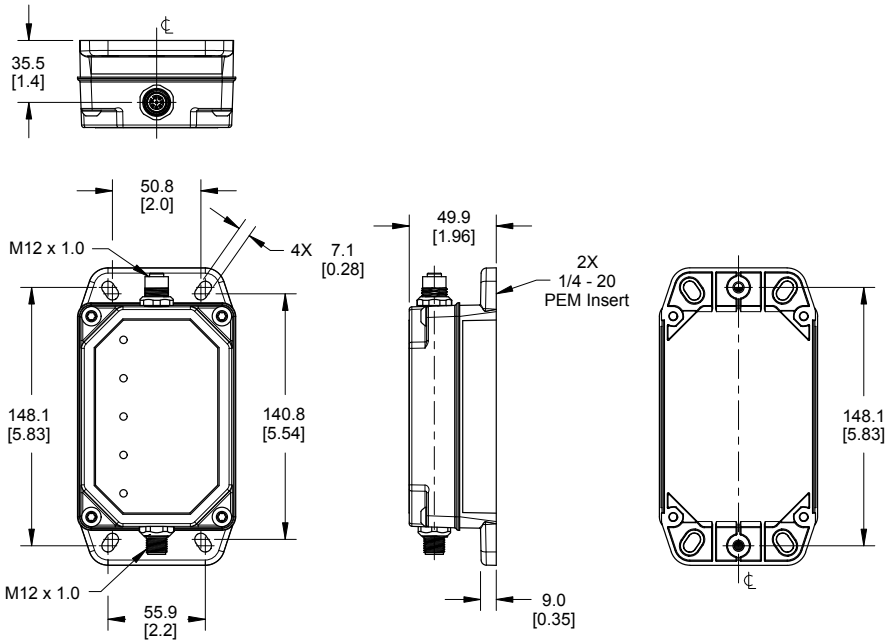
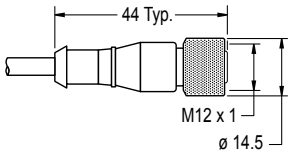
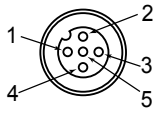
Dimensions

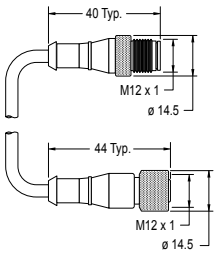
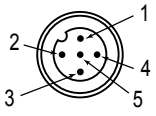
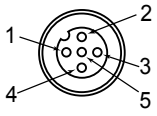
All measurements are listed in millimeters [inches], unless noted otherwise.



Accessories

Cordsets

5-Pin Threaded M12 Cordsets—Single Ended				
Model	**Length**	**Style**	**Dimensions**	**Pinout (Female)**
MQDC1-501.5	0.5 m (1.5 ft)	Straight		 1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
MQDC1-503	0.9 m (2.9 ft)			
MQDC1-506	2 m (6.5 ft)			
MQDC1-515	5 m (16.4 ft)			
MQDC1-530	9 m (29.5 ft)			
MQDC1-560	18 m (59 ft)			
MQDC1-5100	31 m (101.7 ft)			

5-Pin Threaded M12 Cordsets—Double Ended					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Male)**	**Pinout (Female)**
MQDEC-501SS	0.31 m (1.02 ft)	Male Straight/Female Straight			
MQDEC-503SS	0.91 m (2.99 ft)			1 = Brown 2 = White 3 = Blue	4 = Black 5 = Gray
MQDEC-506SS	1.83 m (6 ft)				
MQDEC-512SS	3.66 m (12 ft)				
MQDEC-515SS	5 m (16.4 ft)				
MQDEC-530SS	9 m (29.5 ft)				

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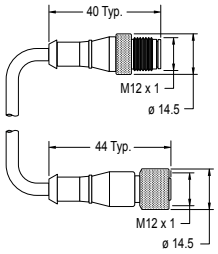
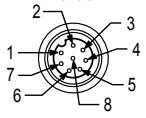
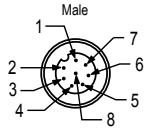
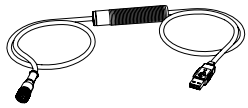
Continued from page 3

5-Pin Threaded M12 Cordsets—Double Ended					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Male)**	**Pinout (Female)**
MQDEC-550SS	15 m (49.2 ft)				

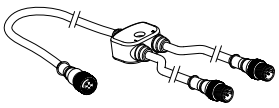
8-Pin Threaded M12 Cordsets—Double Ended				
Model	**Length**	**Style**	**Dimensions**	**Pinout**
MQDEC1-803SS	1 m (3.28 ft)	Male Straight / Female Straight		1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red
MQDEC1-805SS	2 m (6.56 ft)			
MQDEC1-810SS	3 m (9.84 ft)			
MQDEC1-815SS	5 m (16.4 ft)			
MQDEC1-830SS	9 m (29.5 ft)		Female 	Male 
MQDEC1-850SS	15 m (49.2 ft)			
MQDEC1-8100SS	30.5 m (100 ft)			
MQDEC1-8200SS	61 m (200 ft)			

Pro Editor Hardware

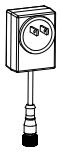
MQDC-506-USB
- Pro Converter Cable
- 1.83 m (6 ft) length 5-pin M12 quick disconnect to Device and USB to PC
- Required for connection to the configuration software



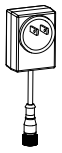
CSB-M1251FM1251M
- 5-pin parallel Y splitter (Male-Male-Female)
- For full Pro Editor preview capability
- Requires external power supply, sold separately



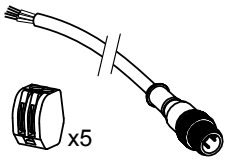
PSW-24-1
- 24 V DC, 1 A power supply
- 2 m (6.5 ft) PVC cable with M12 quick disconnect
- Provides external power with splitter cable, sold separately



PSW-24-2
- 24 V DC, 2 A power supply
- 3.5 m (11.5 ft) PVC cable with M12 quick disconnect
- Provides external power with splitter cable, sold separately



ACC-PRO-CABLE5
- Mating accessory for cabled and terminal models
- 150 mm (6 inch) PVC cable with M12 quick disconnect
- Lever wire nuts included (qty 5)
- Required to connect cabled models and screw terminal models to Pro Converter Cable, sold separately



MQDC-801-5M-PRO
- 8-pin to 5-pin double-ended cordset
- 0.31 m (1 ft) PVC cable with M12 quick disconnects
- Required to connect 8-pin Pro Series-enabled devices to Pro Converter Cable (MQDC-506-USB), sold separately



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Document title: LCA130T Lighting Controller Datasheet
Part number: 232673
Revision: C
Original Instructions
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