

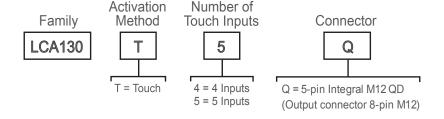
## **Features**



- Rugged, cost-effective, and easy-to-install Andon Control Box
- Integral 5 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

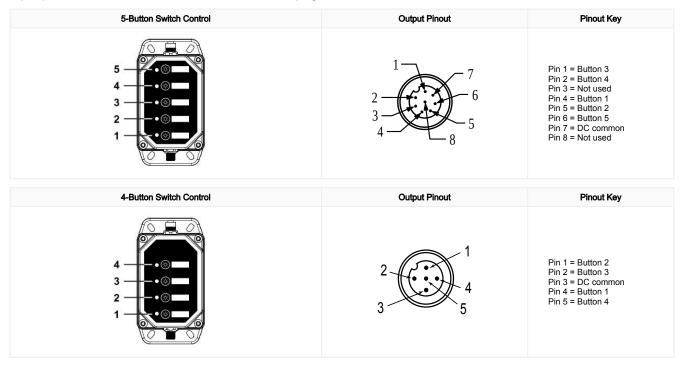
- Five discrete outputs available to pass up to a total of 4 amps

## Models



# Switch Diagram

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



# 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 wire)

#### Input

PNP power only

### Connections

Integral 5-pin and 8-pin M12 male quick-disconnect connectors

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

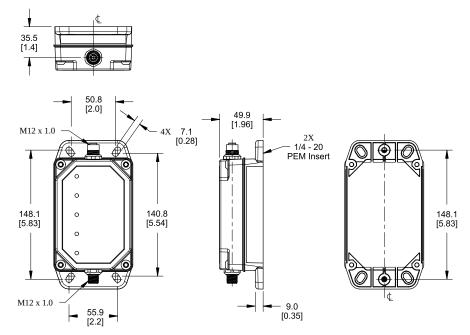


Turck Banner LTD Blenheim House Blenheim Court Wickford, Essex SS11 8YT GREAT BRITAIN



## Dimensions

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

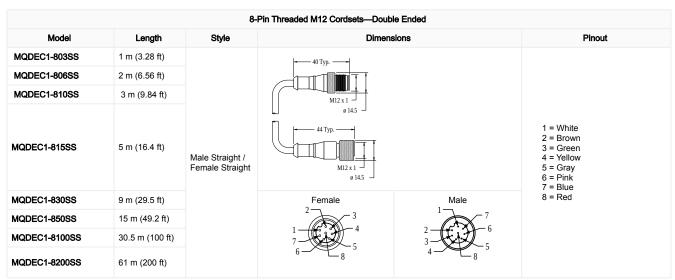


## Accessories

## Cordsets

5-Pin Threaded M12 Cordsets—Single Ended							
Model	Length	Style Dimensions		Pinout (Female)			
MQDC1-501.5	0.5 m (1.5 ft)		<del> </del>	1 2			
MQDC1-503	0.9 m (2.9 ft)						
MQDC1-506	2 m (6.5 ft)			3			
MQDC1-515	5 m (16.4 ft)	Straight		1 = Brown 2 = White			
MQDC1-530	9 m (29.5 ft)		M12 x 1 <sup>→</sup> ø 14.5 <sup>→</sup>				
MQDC1-560	18 m (59 ft)		J 17.0	3 = Blue 4 = Black			
MQDC1-5100	31 m (101.7 ft)			5 = Gray			

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	40 Typ.  M12 x 1  g 14.5  M12 x 1  g 14.5	2 4 5	1 2 3 3 5		
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)						
MQDEC-550SS	15 m (49.2 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 Pro Editor



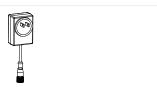
### CSB-M1251FM1251M

- 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



#### 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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