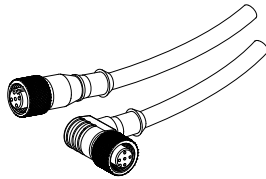


# M12 MQDC Lighted Cordsets



## Datasheet



- Bright indication of sensor power and output status
- Two colors: Green indicates the power is on and amber indicates an active input
- Meets IP66, IP67, IP68
- Models available for PNP or NPN outputs

## Models

4-Pin Threaded M12 Lighted Cordsets—Single Ended						
Model	Length	Input Type	Style	Dimensions	Pinout (Female)	
MQDC-406-GYP	2 m (6.5 ft)	PNP	Straight			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray  Green LED indicates the power is on and amber LED indicates an active input
MQDC-406-GYN		NPN				
MQDC-415-GYP	5 m (16.5 ft)	PNP				
MQDC-415-GYN		NPN				
MQDC-430-GYP	9 m (29.5 ft)	PNP	Right-Angle			
MQDC-430-GYN		NPN				
MQDC-406-GYPRA	2 m (6.5 ft)	PNP				
MQDC-406-GYNRA		NPN				
MQDC-415-GYPRA	5 m (16.5 ft)	PNP				
MQDC-415-GYNRA		NPN				
MQDC-430-GYPRA	9 m (29.5 ft)	PNP				
MQDC-430-GYNRA		NPN				

5-Pin Threaded M12 Lighted Cordsets—Single Ended						
Model	Length	Input Type	Style	Dimensions	Pinout (Female)	
MQDC-506-GYP	2 m (6.5 ft)	PNP	Straight			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray  Green LED indicates the power is on and amber LED indicates an active input
MQDC-506-GYN		NPN				
MQDC-515-GYP	5 m (16.5 ft)	PNP				
MQDC-515-GYN		NPN				
MQDC-530-GYP	9 m (29.5 ft)	PNP	Right-Angle			
MQDC-530-GYN		NPN				
MQDC-506-GYPRA	2 m (6.5 ft)	PNP				
MQDC-506-GYNRA		NPN				
MQDC-515-GYPRA	5 m (16.5 ft)	PNP				
MQDC-515-GYNRA		NPN				
MQDC-530-GYPRA	9 m (29.5 ft)	PNP				
MQDC-530-GYNRA		NPN				

## Wiring Diagrams

Female	Pin	Wire Color	Description
	1	Brown	10 V DC to 30 V DC; the green Power LED is on (color 1)
	2	White	Pass through
	3	Blue	DC common
	4	Black	Input from sensor; the amber output LED (color 2) overrides the green Power LED when it is active
	5	Gray	Not used for 4-pin models Pass through for 5-pin models



## Specifications

### Supply Voltage

10 V DC to 30 V DC at 15 mA maximum

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Leakage Current Immunity

400 µA

### Indicators

Two colors  
Color 2 overrides Color 1

### Connections

Integral 5-pin or 4-pin M12 female quick disconnect connector

### Construction

Coupling Material: Nickel-plated brass  
Connector Body: PVC translucent white  
Cable Material: PVC

### Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 1.0 mm amplitude, 5 minutes sweep, 30 minutes dwell)  
Meets IEC 60068-2-27 requirements (Shock: 30G 11 ms duration, half sine wave)

### Certifications



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



**Turck Banner LTD** Blenheim House, Blenheim Court, Wickford,  
Essex SS11 8YT, Great Britain



### Environmental Rating

IP67, IP68  
NEMA 1, UL Type 1

### Operating Conditions

#### Temperature:

Maximum current of 1.0 A: -40 °C to +60 °C (-40 °F to +140 °F)

Maximum current of 2.0 A: -40 °C to +55 °C (-40 °F to +131 °F)

Maximum current of 4.0 A: -40 °C to +45 °C (-40 °F to +113 °F)

90% at +50 °C maximum relative humidity (non-condensing)

**Storage Temperature:** -40 °C to +70 °C (-40 °F to +158 °F)

### 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.

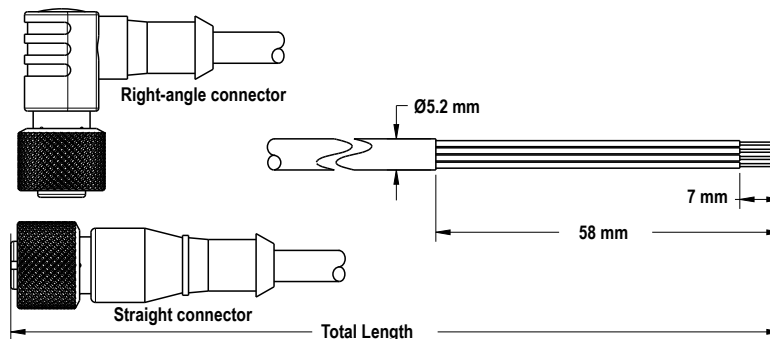
Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to [www.bannerengineering.com](http://www.bannerengineering.com).

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

## Dimensions

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



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