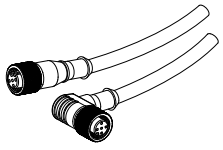
M12 MQDC Lighted Cordsets

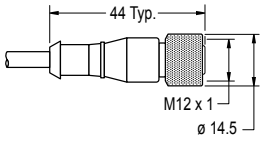
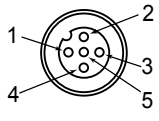
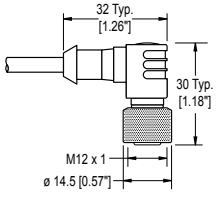
Features

- 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

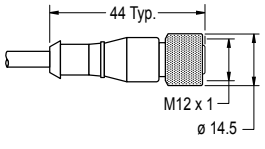
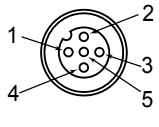
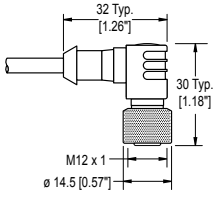
4-Pin Single-Ended M12 Female Lighted Cordsets

Model	Length	Input Type	Style	Dimensions	Pinout (Female)
MQDC-406-GYP	2 m (6.5 ft)	PNP	Straight		
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			
MQDC-430-GYN		NPN			
MQDC-406-GYPRA	2 m (6.5 ft)	PNP	Right-Angle		
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			

1 = Brown
2 = White
3 = Blue
4 = Black
5 = Not used

Green LED indicates the power is on and amber LED indicates an active input

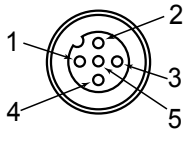
5-Pin Single-Ended M12 Female Lighted Cordsets

Model	Length	Input Type	Style	Dimensions	Pinout (Female)
MQDC-506-GYP	2 m (6.5 ft)	PNP	Straight		
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			
MQDC-530-GYN		NPN			
MQDC-506-GYPRA	2 m (6.5 ft)	PNP	Right-Angle		
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			

1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray

Green LED indicates the power is on and amber LED indicates an active input

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

Original Instructions
11-Feb-25

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p/n: 221438 Rev. D

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

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

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)

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 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.

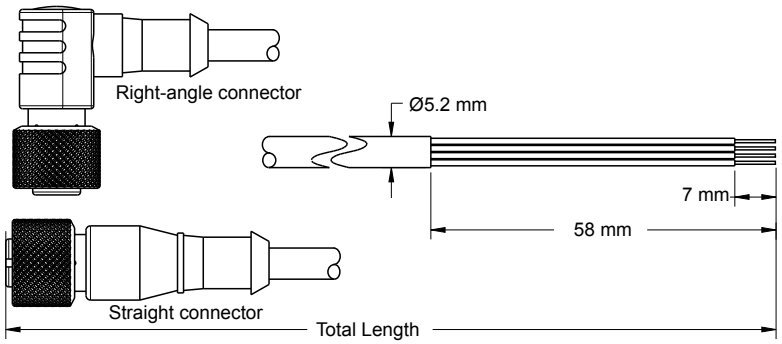
Supply wiring leads < 24 AWG shall not be spliced.

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	1.0	30	0.5

Dimensions

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



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