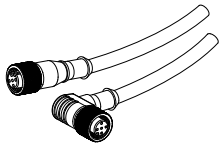
# M12 MQDC Lighted Cordsets

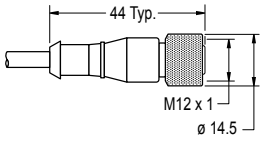
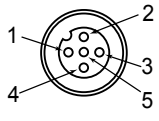
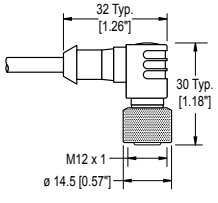
## Features

- 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

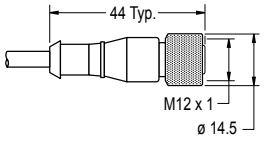
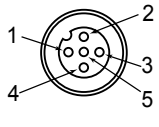
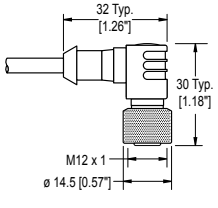
**4-Pin Single-Ended M12 Female Lighted Cordsets**

| 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

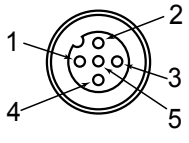
**5-Pin Single-Ended M12 Female Lighted Cordsets**

| 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<br>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**

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Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

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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.

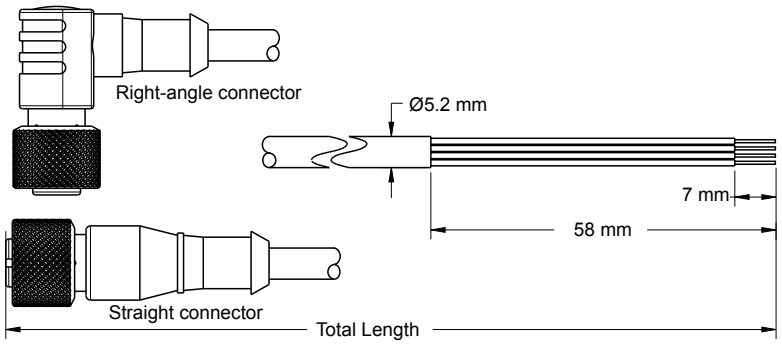
Supply wiring leads < 24 AWG shall not be spliced.

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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