# EZ-LIGHT® for EZ-SCREEN®

## Datasheet

*DC-operated LED Indicators that Follow the Receiver's OSSD Output Status*

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, go to www.bannerengineering.com.

**WARNING:**
- **Do not use this device for personnel protection**
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction can cause either an energized (on) or de-energized (off) output condition.

## Models

| Model | | Construction |
|---|---|---|
|  | M18RGX8PQ8 [1] | Nickel-plated brass housing, M18x1 thread; thermoplastic diffuser. Fully encapsulated IP67. |
|  | K30LRGX8PQ8 | 22 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated IP67, IP69K per DIN 40050-9. |
|  | K50LRGX8PQ8 | 30 mm threaded polycarbonate base, translucent polycarbonate dome. Fully encapsulated IP67, IP69K per DIN 40050-9. |
|  | K50FLRGX8PQ8 | Polycarbonate base, translucent polycarbonate dome. Fully encapsulated IP67, IP69K per DIN 40050-9. |
|  | K80LRGX8PQ8 | ABS and polycarbonate base, translucent polycarbonate dome. Electronics fully encapsulated IP67. |

The following models are no longer available for order, but are still covered by the information in this document.

| Model | | Construction |
|---|---|---|
|  | T18RGX8PQ8 | Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated IP67. |

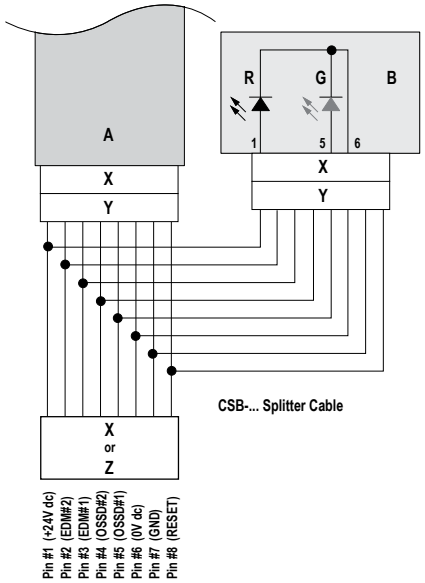
[1] Available in a kit that includes one M18 EZ-LIGHT, one SMB18A mounting bracket, and hardware for mounting to the side channel of an EZ-SCREEN housing. Kit model number EZA-M18RGX8PQ8.



ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

| Model | | Construction |
|---|---|---|
|  | T30RGX8PQ8 | Thermoplastic polyester housing, thermoplastic diffuser. Fully encapsulated IP67. |

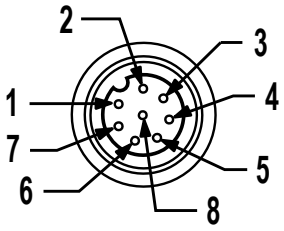
## Wiring




**Key:**
A = Standard EZ-SCREEN M12 connector/wiring
B = EZ-LIGHT
R = Red
G = Green
X = Male M12
Y = Female M12
Z = Unterminated
C = CSB-...Splitter Cable DEE2R-8...D*

**Note:** *Use a model DEE2R-8..D double-ended cordset to extend the length between the CSB splitter and the EZ-LIGHT.

## Pinout and Color Code Information

| EZ-LIGHT for EZ-SCREEN Pinout / Color Code | | | M12 Specification [2] | | | Connector (female face view) |
|---|---|---|---|---|---|---|
| Pin | Color | Function | Pin | Color | Function | |
| 1 | Brown | + 24 V DC | 1 | White | + 24 V DC |  |
| 2 | Orange/Black | No connection | 2 | Brown | No connection | |
| 3 | Orange | No connection | 3 | Green | No connection | |
| 4 | White | No connection | 4 | Yellow | No connection | |
| 5 | Black | OSSD #1 | 5 | Gray | OSSD #1 | |
| 6 | Blue | 0 V DC | 6 | Pink | 0 V DC | |
| 7 | Green/Yellow | No connection | 7 | Blue | No connection | |
| 8 | Violet | No connection | 8 | Red | No connection | |



## Specifications

**Supply Voltage and Current**
K30L, M18 and T18 Models: +24 V DC at 30 mA max.
T30, K50L, K50FL and K80L Models: +24 V DC at 45 mA max.

**Outputs**
PNP

**Indicators**
Entire translucent diffuser or dome provides indication.
Red/Green indication follows EZ-SCREEN OFF/ON OSSD#1 output.

**Connections**
Integral 8-pin M12 male quick-disconnect connector

**Construction**
See Models table

**Environmental Rating**
All models: IP67
K50L, K30L, K50FL: IP67, IP69K per DIN 40050-9
K80L has encapsulated electronics only; other models fully encapsulated

[2] The M12 specification pin assignment and color codes are listed as a customer courtesy. The user must verify suitability of these cordsets for each application.

**Certifications**

All models:

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

K50L, K50FL, T18, and T30 models only:

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

K30L and K50L models only:

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**Operating Conditions**

–40 °C to +50 °C (–40 °F to +122 °F)

**Required Overcurrent Protection**

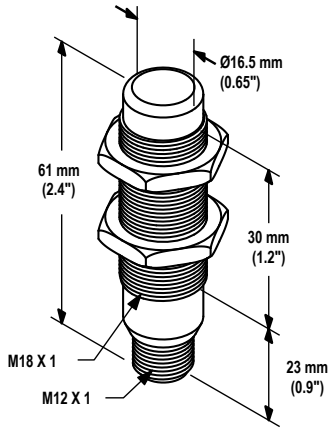
**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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.

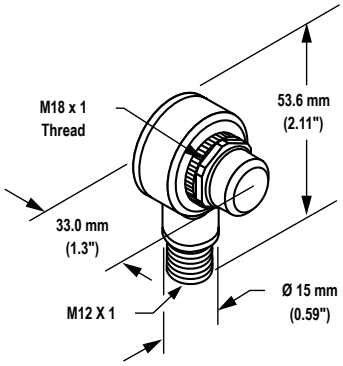
| Supply Wiring (AWG) | Required Overcurrent Protection (Amps) |
|---|---|
| 20 | 5.0 |
| 22 | 3.0 |
| 24 | 2.0 |
| 26 | 1.0 |
| 28 | 0.8 |
| 30 | 0.5 |

## Dimensions

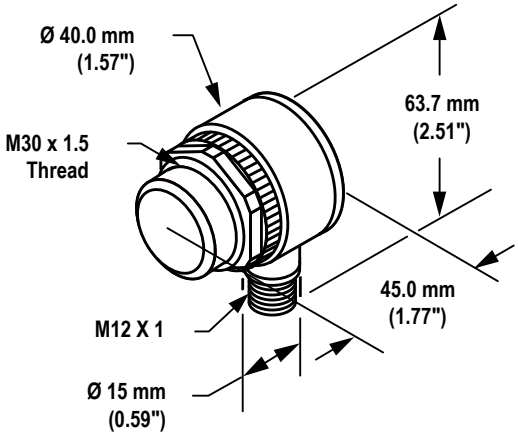
### M18 Models



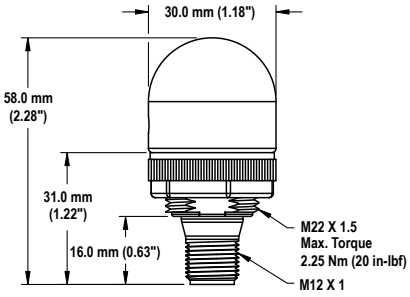

### T18 Models



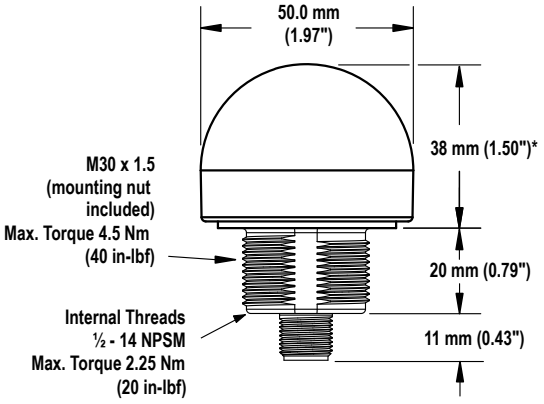

### T30 Models



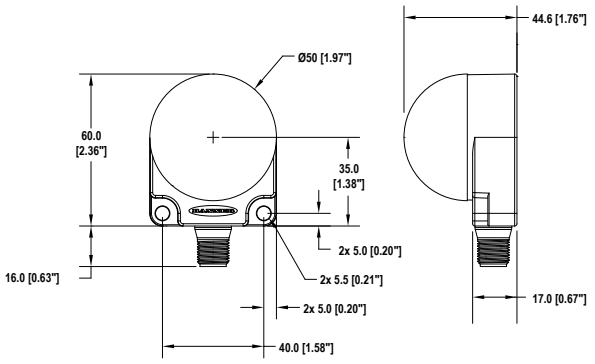

### K30L Models



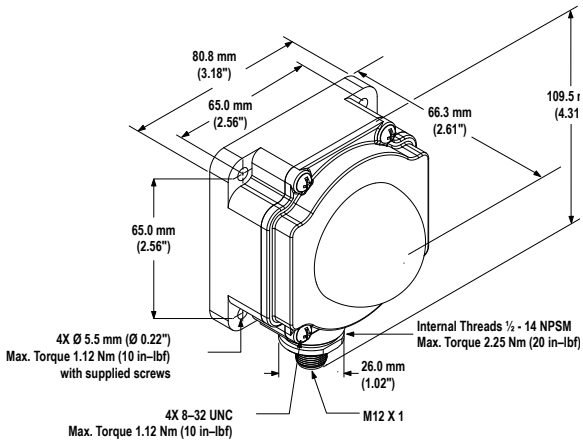

### K50L Models



**K50FL Models**



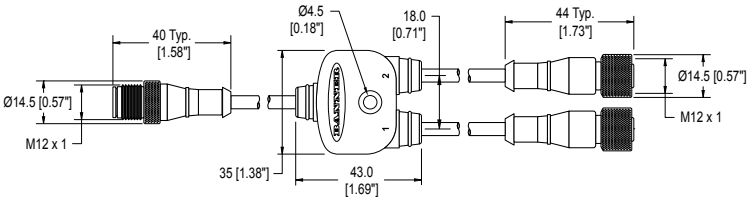

**K80L Models**

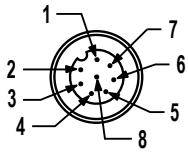



# Accessories

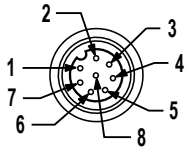
## Cordsets

| 8-Pin Threaded M12 Splitter Cordsets—Flat Junction | | | |
|---|---|---|---|
| **Model** | **Trunk (Male)** | **Branches (Female)** | **Pinout** |
| **CSB-M1280M1280** | No trunk | No branches | Male |
| **CSB-M1281M1281** | 0.3 m (1 ft) | 2 x 0.3 m (1 ft) | |
| **CSB-M1288M1281** | 2.44 m (8 ft) | | |
| **CSB-M12815M1281** | 4.57 m (15 ft) | | |
| **CSB-M12825M1281** | 7.62 m (25 ft) | | |
| **CSB-UNT825M1281** | 7.62 m (25 ft) Unterminated | | |




Female




1 = Brown
2 = Or/Bk
3 = Orange
4 = White
5 = Black
6 = Blue
7 = Gn/Ye
8 = Violet

| 8-Pin Threaded M12 Cordsets—Double Ended | | | | |
|---|---|---|---|---|
| **Model (8-pin/8-pin )** | **Length** | **Style** | **Dimensions** | **Pinout** |
| **DEE2R-81D** | 0.3 m (1 ft) | Female Straight/ Male Straight | 40 Typ. M12 x 1 ø 14.5 44 Typ. M12 x 1 ø 14.5 | Female |
| **DEE2R-83D** | 0.91 m (3 ft) | | | |
| **DEE2R-88D** | 2.44 m (8 ft) | | | |
| **DEE2R-815D** | 4.57 m (15 ft) | | | |
| **DEE2R-825D** | 7.62 m (25 ft) | | | |
| **DEE2R-850D** | 15.24 m (50 ft) | | | |
| **DEE2R-875D** | 22.86 m (75 ft) | | | Male |

| 8-Pin Threaded M12 Cordsets—Double Ended | | | | | |
|---|---|---|---|---|---|
| **Model (8-pin/8-pin )** | **Length** | **Style** | **Dimensions** | **Pinout** | |
| **DEE2R-8100D** | 30.48 m (100 ft) | | | 1 = Brown<br>2 = Orange/Black<br>3 = Orange<br>4 = White | 5 = Black<br>6 = Blue<br>7 = Green/Yellow<br>8 = Violet |

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