EZ-LIGHT® Touch Gen 2 K30 Series Pick-to-Light



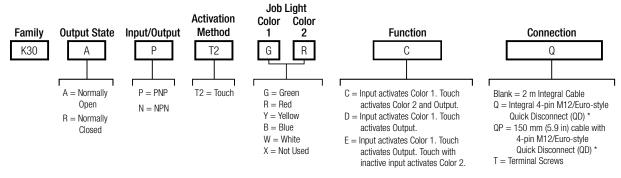
Datasheet

Compact, Single-Point Devices for Error-Proofing of Bin-Picking Operations



- · Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Rugged, cost-effective and easy-to-install solutions for error-proofing and parts-verification applications
- · Compact devices are completely self-contained, no controller needed
- Waterproof IEC IP69K construction for washdown environments
- · Easy actuation, no force required
- 12 V dc to 30 V dc operation
- Can be actuated with bare hands or gloves
- Five color options available
- Terminal connection models available for panel wiring applications

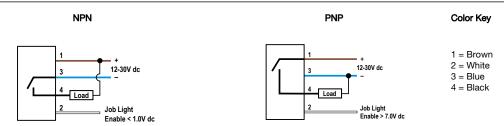
Models



* QD model requires mating cordset

Sample Model	Description
K30APT2GRC	Normally open output state, PNP, Touch, Color 1: Green, Color 2: Red, Input activates Color 1, Touch activates Color 2 and Output, 2 m integral cable
K30RNT2GXDQ	Normally closed output state, NPN, Touch, Color 1: Green, Color 2: No color, Input activates Color 1, Touch activates Output, Integral 4-pin M12/Euro-style quick-disconnect
K30APT2BXDT	Normally open output state, PNP, Touch, Color 1: Blue, Color 2: No color, Input activates Color 1, Touch activates Output, Terminal screws

Wiring Diagrams



Note: Cabled wiring diagrams are shown. Quick disconnect (QD) wiring diagrams are functionally identical.



Specifications

Supply Voltage

12 V dc to 30 V dc

Supply Current

55 mA max current (exclusive of load)

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Output Rating

Maximum load: 150 mA

ON-state saturation voltage: < 2 V dc at 10 mA; < 2.5 V dc at 150 mA OFF-state leakage current: < 10 μ A at 30 V dc

Output Response Time:

150 milliseconds On and Off

Mounting

M22 × 1.5 Threaded base, max torque 2.25 N·m (20 in·lbf)

Connections

Integral 4-pin M12/Euro-style QD, or 2 m (6.5 ft) PVC integral cable

Vibration and Mechanical Shock

Vibration 10 Hz to 55 Hz 1.0 mm p-p amplitude per IEC 60068-2-6 Shock 30G 11 ms duration, half sine wave per IEC 60068-2-27

Environmental Rating

Rated IEC IP67, and IP69K, per DIN 40050-9. Cabled models also meet IEC IP69K if the cable and cable entrance are protected from high-pressure spray. Indicator side of terminal models meet IEC IP67, and IEC IP69K when installed in an enclosure. Screw connection points meet IEC IP00.

Meets UL type 4X and 13, when used in a suitable enclosure.

Operating Conditions

Temperature: -40 °C to +50 °C (-40 °F to +122 °F)

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

-40 °C to +70 °C (-40 °F to +158 °F)

Certifications





Power-Up Delay

300 milliseconds

Construction

Housing: polycarbonate Translucent dome: polycarbonate

Mounting nut: PBT

Indicator Characteristics

Color	Dominant Wavelength (nm) or Color Temperature (CCT)	Lumen Output (Typical at 25 °C)
Green	520 - 535 nm	4.4
Red	620 - 630 nm	1.7
Yellow	585 - 595 nm	4.4
Blue	465 - 475 nm	1.0
White	5665 - 9000K	5.0

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.

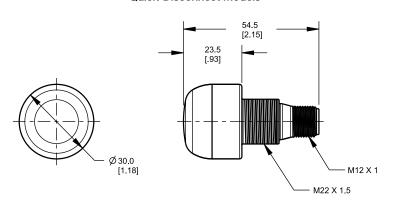
For additional product support, go to www.bannerengineering.com.

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	

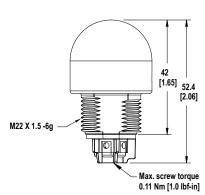
Dimensions

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

Quick-Disconnect Models



Terminal Models



Accessories

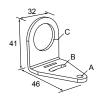
Cordsets

4-Pin Threaded M12/Euro-Style Cordsets					
Model	Length	Style	Dimensions	Pinout (Female)	
MQDC-406	1.83 m (6 ft)				
MQDC-415	4.57 m (15 ft)	Straight			
MQDC-430	9.14 m (30 ft)		M12 x 1		
MQDC-450	15.2 m (50 ft)		ø 14.5 —	1-	
MQDC-406RA	1.83 m (6 ft)		, 32 Typ.	4-0	
MQDC-415RA	4.57 m (15 ft)	Right-Angle	[1.26"]	4 5	
MQDC-430RA	9.14 m (30 ft)		30 Typ.	1 = Brown 2 = White	
MQDC-450RA	15.2 m (50 ft)		M12 x 1	3 = Blue 4 = Black	

Brackets

SMB22A

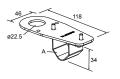
- Right-angle bracket with curved slot for versatile orientation
- 12-ga. stainless steel
- Mounting hole for 22 mm sensor



SMB22FVK

- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor

Hole size: A = Ø 22.5

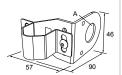


Hole center spacing: A to B = 26.0Hole size: A = \emptyset 4.6, B = 4.6×16.9 , C = 22.2

SMB22RAVK

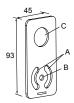
- V-clamp, right-angle bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm diameter tubing or 1 in. square extrusions
- 22 mm hole for mounting sensor

Hole size: A = Ø 22.5



SMBAMS22P

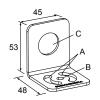
- Flat SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



Hole center spacing: A = 26.0, A to B = 13.0**Hole size:** $A = 26.8 \times 7.0$, $B = \emptyset 6.5$, $C = \emptyset 22.5$

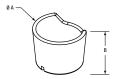
SMBAMS22RA

- Right-angle SMBAMS series bracket with 22 mm hole for mounting sensors
- Articulation slots for 90+° rotation
- 12-ga. (2.6 mm) cold-rolled steel



TC-K30-CL

Touch cover



Diameter: A = 40.7 Height: B = 31

Hole center spacing: A = 26.0, A to B = 13.0 **Hole size:** A = 26.8×7.0 , B = \emptyset 6.5, C = \emptyset 22.5

All measurements are listed in millimeters, unless noted otherwise.

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FCC Part 15 and CAN ICES-3 (B)/NMB-3(B)

This device complies with part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules and CAN ICES-3 (B)/NMB-3(B). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer.

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K30APT2BXDQ K30APT2BXDT K30APT2BYCQ K30APT2GRC K30APT2GRCQ K30APT2GRCQP

K30APT2GRCT K30APT2GRE K30APT2GREQ K30APT2GREQP K30APT2GRET K30APT2GXDQ K30APT2GXDQ

K30APT2GXDQP K30APT2GYCQ K30APT2GYCQP K30APT2GYEQ K30APT2RGC K30APT2RGCQ

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