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



Datasheet

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



- Rugged, cost-effective and easy-to-install solutions for error-proofing and partsverification applications
- Compact devices are completely self contained—No controller needed •
- Illuminated dome provides an easy-to-see green job light: some models also light • red for alternate operation
- Waterproof 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 in gloves .

Models

Model	Function	Output	Connection ¹	Job Light
K30APTGXDQ	 Job light is ON at all times while job input is active Touch activates output 	PNP, NO	Integral 4-pin M12/ Euro-style male quick disconnect	Green
K30RPTGXDQ		PNP, NC		
K30ANTGXDQ		NPN, NO		
K30RNTGXDQ		NPN, NC		
K30APTGRCQ	 Job light is Green while job input is active Touch activates output and overrides job light (turns Red) for visual verification that action was sensed 	PNP, NO		Green (Red)
K30RPTGRCQ		PNP, NC		
K30ANTGRCQ		NPN, NO		
K30RNTGRCQ		NPN, NC		
K30APTGREQ	 Job light is Green at all times while job input is active Touch activates output A touch while job input is inactive causes unit to light Red, providing visual verification that sensor is functioning properly 	PNP, NO		Green (Red)
K30RPTGREQ		PNP, NC		
K30ANTGREQ		NPN, NO		
K30RNTGREQ		NPN, NC		

Wiring Diagrams





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

Models with a quick disconnect require a mating cordset. .



¹ Integral quick disconnect models are listed.

To order the 2 m (6.5 ft) PVC cable model, omit the suffix "Q" in the model number. For example, K30APTGXD.

To order the 150 mm (6 in) PVC cable model with a 4-pin M12/Euro-style quick disconnect, replace the suffix "Q" with "QP" in the model number. For example, K30APTGXDQP.

0.5

Specifications

Supply Voltage 12 V dc to 30 V dc	Power-Up Delay 300 milliseconds		
Supply Current 55 mA max current (exclusive of load) Supply Protection Circuitry Protected against reverse polarity and transient voltages	Construction Housing: polycarbonate Translucent dome: polycarbonate Mounting nut: PBT		
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 µA at 30 V dc	I ndicators Job ("pick") indicator: Green Pick sensed indicator: Red or Off, depending on model Mounting M22 × 1.5 Threaded base, max torque 2.25 N·m (20 in-lbf)		
Output Response Time: 150 milliseconds On and Off	Connections Integral 4-pin M12/Euro style QD, or 2 m (6.5 ft) PVC integral cable		
Vibration and Mechanical Shock	Required Overcurrent Protection		
 All models meet Mil. Std. 202F requirements method 201A (vibration: 10 Hz to 60 Hz max., double amplitude 0.06 in. maximum acceleration 10G). Also meets IEC 947-5-2; 30G 11 ms duration, half sine wave. Environmental Rating 	A made b	ING: Electrical connections must be y qualified personnel in accordance cal and national electrical codes and ions.	
IEC IP67, IP69K per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray. Enclosure Type 4X, 13	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 <i>www.bannerengineering.com</i> .		
Storage -40 °C to +70 °C (-40 °F to +158 °F)			
Operating Conditions Temperature: -40 °C to +50 °C (-40 °F to +122 °F)	Supply Wiring (AWG)	Required Overcurrent Protection (Amps)	
Humidity: 90% at 50 °C maximum relative humidity (non- condensing)	20	5.0	
Certifications	22	3.0	
	24	2.0	
	26	1.0	
	28	0.8	

30

Dimensions

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



Accessories

Cordsets



Brackets



All measurements are listed in millimeters, unless noted otherwise.

Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersed that which is provided in any other language. For the most recent version of any documentation, refer to: *www.bannerengineering.com*.

