

Datasheet

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

Models ¹			LED Colors — 2 or 3 Lights, Independently Selected 2			Construction		
	PNP Input	NPN Input	Color 1	Color 2	Color 3	_		
	T8LGRXPQP	T8LGRXNQP	Green	Red	_			
	T8LGXYPQP	T8LGXYNQP	Green	_	Yellow	Polycarbonate/ABS alloy housing,		
	T8LXRYPQP	T8LXRYNQP	_	Red	Yellow	thermoplastic diffuser IP67		
Cite-	M18GRXPQ	M18GRXNQ	Green	Red	_	· · · · · · · · · · · ·		
	M18GXYPQ	M18GXYNQ	Green	_	Yellow	Nickel-plated brass housing, thermoplastic diffuser		
	M18XRYPQ	M18XRYNQ	_	Red	Yellow	Fully encapsulated		
	M18GRYPQ	M18GRYNQ	Green	Red	Yellow	IP67		
	K30LGRXPQ	K30LGRXNQ	Green	Red	_			
	K30LGXYPQ	K30LGXYNQ	Green	_	Yellow	22 mm threaded polycarbonate		
	K30LXRYPQ	K30LXRYNQ	_	Red	Yellow	base, translucent polycarbonate		
	K30LGRYPQ	K30LGRYNQ	Green	Red	Yellow	dome Fully encapsulated IP67, IP69K per DIN 40050-9		
	K50LGRXPQ	K50LGRXNQ	Green	Red	_			
	K50LGXYPQ	K50LGXYNQ	Green	_	Yellow	30 mm polycarbonate base,		
	K50LXRYPQ	K50LXRYNQ	_	Red	Yellow	translucent polycarbonate dome Fully encapsulated		
	K50LGRYPQ	K50LGRYNQ	Green	Red	Yellow	IP67, IP69K per DIN 40050-9		
	K50FLGRXPQ	K50FLGRXNQ	Green	Red	_			
Q	K50FLGXYPQ	K50FLGXYNQ	Green	_	Yellow	ABS base, translucent		
	K50FLXRYPQ	K50FLXRYNQ	_	Red	Yellow	polycarbonate dome Fully encapsulated		
	K50FLGRYPQ	K50FLGRYNQ	Green	Red	Yellow	IP67, IP69K per DIN 40050-9		
	K80LGRXPQ	K80LGRXNQ	Green	Red	_			
200	K80LGXYPQ	K80LGXYNQ	Green	_	Yellow	Polycarbonate base, translucent		
	K80LXRYPQ	K80LXRYNQ	_	Red	Yellow	polycarbonate dome		
	K80LGRYPQ	K80LGRYNQ	Green	Red	Yellow	Electronics fully encapsulated IP67		

T8L Models: Standard 150 mm (6 in) PVC-jacketed cable with 4-pin M12 quick-disconnect connector models are listed. For integral 4-wire cabled model, omit suffix • QP. For example, T8LGRXP.

K30L Models: Standard integral 4-pin M12 quick-disconnect connector models are listed. For 2 m (6.5 ft) integral 4-wire cabled model, omit suffix Q. For example, K30LGRXP. For 150 mm (6 in) PVC-jacketed cable with 4-pin M12 quick-disconnect connector, replace suffix Q with QP. For example, K30LGRXPQP. For terminal • model, replace suffix Q with T. For example, K30LGRXPT.

K80L Models: Standard integral 4-pin M12 quick-disconnect connector models are listed. For terminal-wired model, omit suffix Q. For example, K80LGRXP.

Other Models: Standard integral 4-pin M12 quick-disconnect connector models are listed. For 2 m (6.5 ft) integral 4-wire cabled model, omit suffix Q. For example, . M18GRXP. For 150 mm (6 in) PVC-jacketed cable with 4-pin M12 quick-disconnect connector, replace suffix Q with QP. For example, M18GRXPQP. Models with a quick disconnect require a mating cordset.

² Contact Banner Engineering for other colors and color combinations.



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

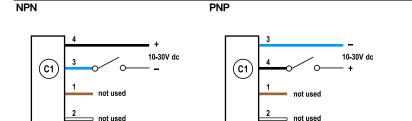
Models ¹			LED Colors — 2 or 3 Lights, Independently Selected			Construction	
	PNP Input	NPN Input	Color 1	Color 2	Color 3	-	
	T18GRXPQ	T18GRXNQ	Green	Red	_		
Ŷ	T18GXYPQ	T18GXYNQ	Green	_	Yellow	Thermoplastic polyester housing, thermoplastic diffuser	
	T18XRYPQ	T18XRYNQ	_	Red	Yellow	Fully encapsulated	
	T18GRYPQ	T18GRYNQ	Green	Red	Yellow	IP67	
	T30GRXPQ	T30GRXNQ	Green	Red	_		
	T30GXYPQ	T30GXYNQ	Green	_	Yellow		
	T30XRYPQ	T30XRYNQ	_	Red	Yellow	Thermoplastic polyester housing,	
	T30GRYPQ ³	T30GRYNQ	Green	Red	Yellow	thermoplastic diffuser	
	T30GRBPQ	_	Green	Red	Blue	Fully encapsulated	
	T30GROPQ	_	Green	Red	Orange	IP67	
	-	T30RGR5PNQ	Red	Green	Red		
	T30RGXPQ	_	Red	Green	_		

Wiring Diagrams

Multi Color Wiring NPN PNP 1 = Brown C1 = Color 1 2 = White C2 = Color 23 3 = BlueC3 = Color 34 = BlackC1 (C1 5 = GrayGray Wire not used in K30 Terminal models C2 (C2 (C3 СЗ

Single Color Wiring

NPN



Specifications

Supply Voltage and Current

ppy voltage and Content.
T8L models: 10 V DC to 30 V DC at 20 mA maximum
T18, M18, and K30L models: 10 V DC to 30 V DC at 25 mA maximum per LED color
T30 models: 10 V DC to 30 V DC at 40 mA maximum per LED color
K50L, K50FL, and K80L models: 18 V DC to 30 V DC at 40 mA maximum per LED color

Indicators

Entire translucent diffuser or dome provides indication. Green and yellow, when connected to discrete output of 3-wire or 4-wire sensors. For other colors, contact factory for availability.

Input Response Time

Indicator ON/OFF: 1 ms max.

Connections

onnections T8L models: 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector (QP) or 2 m (6.5 ft) unterminated 4-wire integral cable, depending on model K3OL models: Integral 4-pin M12 male quick-disconnect connector (Q), 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector (QP), 2 m (6.5 ft) unterminated 4-wire integral cable, or 5 color-coded screw terminal for up to 16 AWG wire, depending on model. Screw terminal max torque: 0.11 N·m (1.0 lbf·in). K8OL models: Integral 4-pin M12 male quick-disconnect connector (Q) standard; terminal-wired models vauilable for use with bulk cable; compression fitting optional. Contact Factory for cable information. Other models: Integral 4-pin M12 male quick-disconnect connector (Q), 150 mm (6 in) PVC-jacketed cable with a 4-pin M12 male quick-disconnect connector (QP), or 2 m (6.5 ft) unterminated 4-wire integral cable, depending on model onstruction

Construction See Models lists

Standard integral 4-pin M12 quick-disconnect connector models are listed. To order the 9 m (30 ft) PVC cable model, replace the suffix "Q" with "W/30" in the model number. For example, T30GRYP W/30. To order the 150 mm (6 in) PUR cable model with a M12 quick disconnect, replace the suffix "Q" with "QPMA" in the model number. For example, T30GRYPQPMA.

Environmental Rating Rated IP67. T&L not encapsulated; K80L has encapsulated electronics only; other models fully encapsulated. K30L, K50L, and K50FL QD models meet IP69K per DIN 40050-9. Cabled models also meet IP69K if the cable and cable entrance are protected from high-pressure spray.

Operating Conditions

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

All models: 6

JK

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





Dimensions

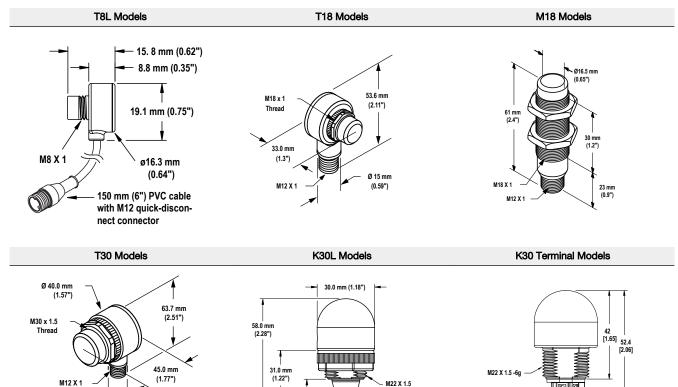




WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

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



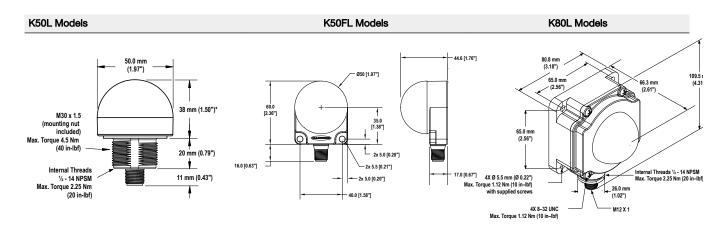
16.0 mm (0.63")

Max. Torque 2.25 Nm (20 in-lbf)

M12 X 1

Ø 15 mm

(0.59")



Accessories

Cordsets

4-Pin Threaded M12 Cordsets—Single Ended							
Model	Length	Style	Dimensions	Pinout (Female)			
MQDC-406	2 m (6.56 ft)		44 Typ. ————				
MQDC-415	5 m (16.4 ft)	Straight	44 typ.				
MQDC-430	9 m (29.5 ft)				1 = Brown 2 = White 3 = Blue 4 = Black 5 = Unused		
MQDC-450	15 m (49.2 ft)		M12 x 1				
MQDC-406RA	2 m (6.56 ft)	Right-Angle	20 Tur				
MQDC-415RA	5 m (16.4 ft)		32 Typ. [1.26"] 30 Typ. 14.5 [0.57"]				
MQDC-430RA	9 m (29.5 ft)						
MQDC-450RA	15 m (49.2 ft)						

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