


















# Indicators

Banner's Indicators offer a wide variety of bright, highly visible models ranging from daylight visible to multiple colors in one device. Indicators have a rugged design for long-term use and require no additional protective box. Flexibility in design, size and mounting provides a unique solution for many indication applications.

# Selection Guide



Base Mount

Page	66	68	72	74	78
Family Name	K30L2 K50L2	K30L K50L	K70L	K90L	K50BL
Dome Size (mm)	30 50	30 50	70	90	50
Mounting Hole Diameter (mm)	22 30	22 30	30	30	30
AC/DC Power Option	DC	AC or DC	DC	DC	AC or DC
Audible Alarm Options					
Daylight Visible Options					
Multiple Colors per Light Segment	 1-7 colors 7+ with IO-Link	 K30: 1-3 K50: 1-5	 1-5	 1-5	 1-3 depending on model
IP67 Options	IP66, IP67, IP69K	IP67, IP69K		IP67	IP67, IP69K
IO-Link					
Flashing or Strobeg Options					
Hazardous Area Models		page 82			
Modbus Models		page 80			page 80



Flat Mount

Barrel Mount

92	88	90	94	84	86
K80 Segmented	K50FL	K80	SP Series	S18L/S22L	S22L2 Flush
80	50	50	50	18	20
NA	NA	NA	NA	18/22	22
DC	DC	AC or DC	AC or DC	DC	DC
	1-5	1-5	1-3	1-3	1-7
IP67	IP67, IP69K	IP67	IP67	IP67, IP69K	IP66, IP67, IP69K

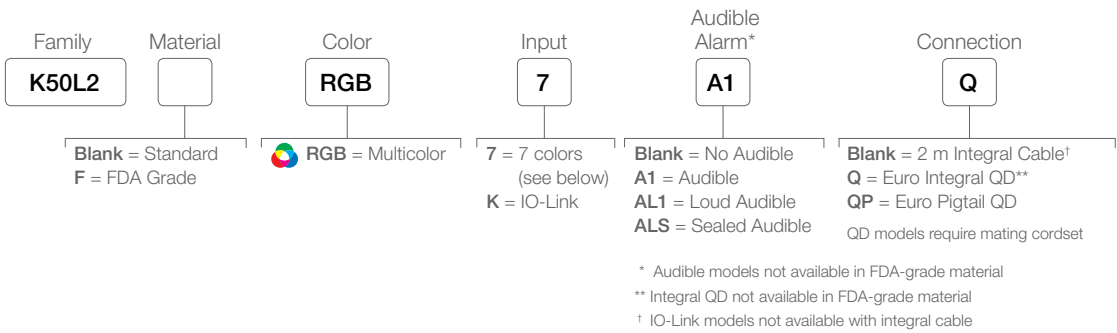


## K50L2 and K30L2 Domed Indicators

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- Bright, even indication in red, green, blue, yellow, cyan, magenta, and white
- Rugged IP66, IP67, and IP69K polycarbonate housing protects against impact and withstands high-pressure, high-temperature washdown to ensure reliable performance in challenging environments
- Models constructed from FDA-grade materials available for use in food and beverage applications
- Simple wiring plan enables quick installation and allows users to consolidate controller outputs
- An optional audible alarm provides a distinct, loud notification of status (K50L2 models only)
- IO-Link enables full control of color, flashing, dimming, and advanced animations like rotation, strobing, 2-color display, 2-color rotation, 2-color flashing, and chase

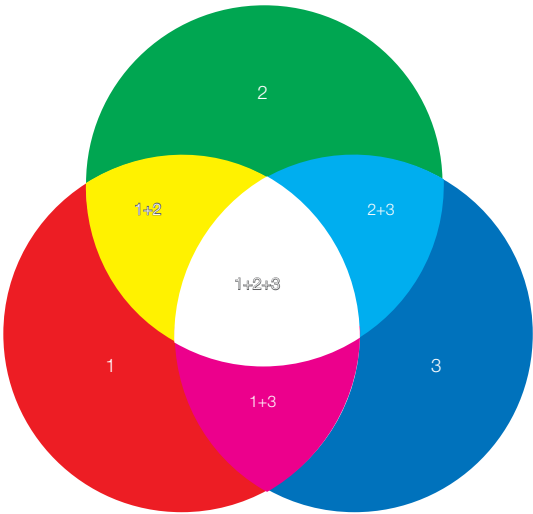
K50L2



K30L2



Seven colors now available in one unit



	Input 1	Input 2	Input 3
Red	ON		
Green		ON	
Blue			ON
Yellow	ON	ON	
Cyan		ON	ON
Magenta	ON		ON
White	ON	ON	ON

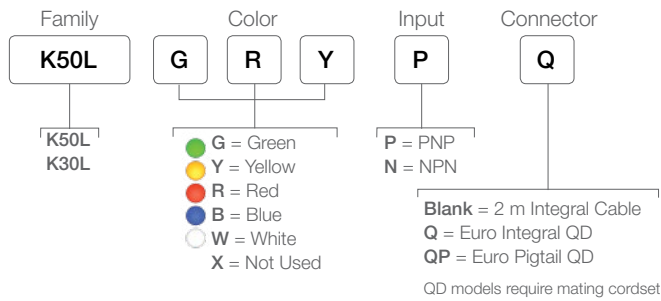


## K50L and K30L Domed Indicators

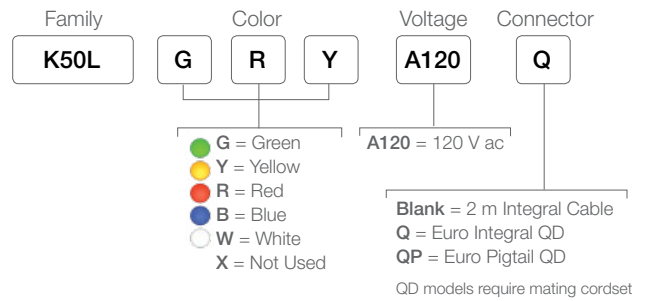
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- Rugged, cost-effective and easy-to-install indicators
- Illuminated dome provides easy-to-see operator guidance and indication of equipment status
- Compact devices are completely self-contained — no controller needed
- Displays up to five colors
- Immune to EMI and RFI interference

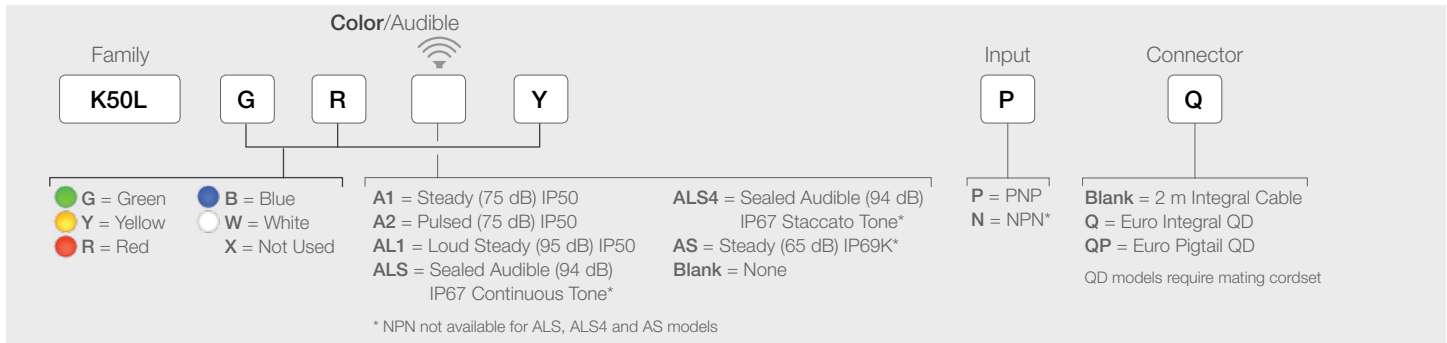
## One-, Two- or Three-Color Indicators 18 to 30 V dc



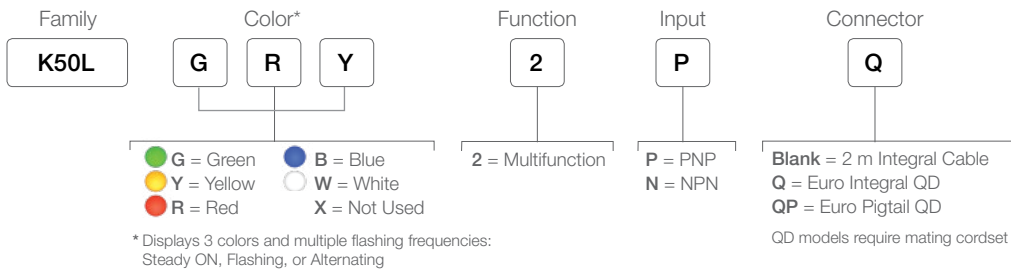
## One-, Two- or Three-Color Indicators 85 to 120 V ac



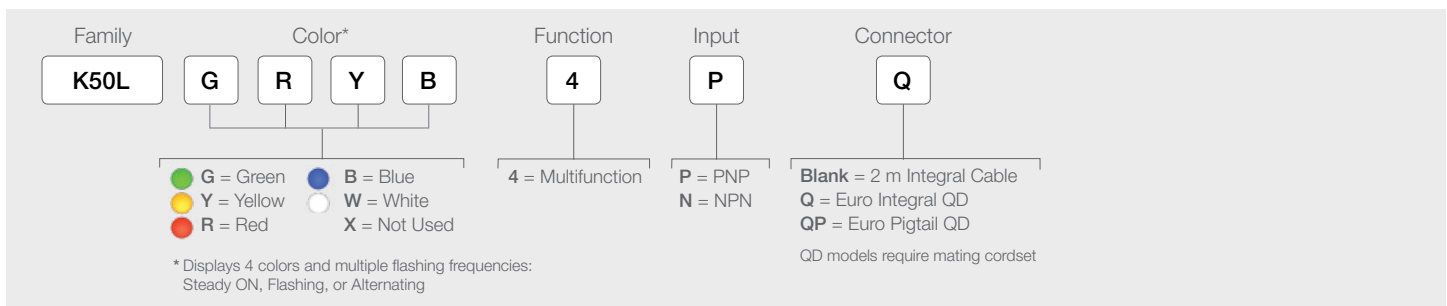
## One-, Two- or Three-Color Audible Indicators



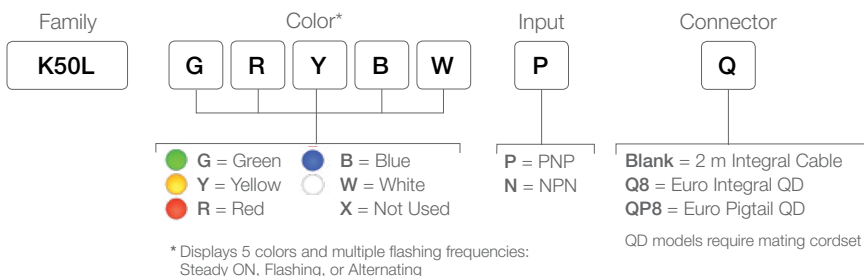
## Three-Color Multifunction Indicators







## Four-Color Multifunction Indicators

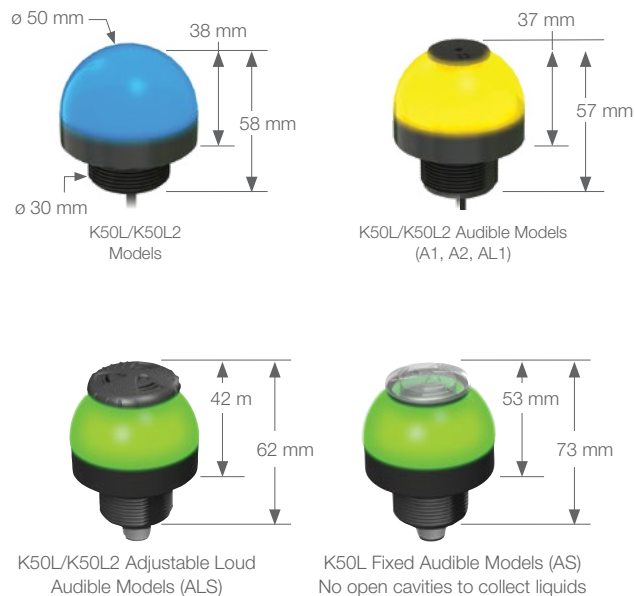


## Five-Color Multifunction Indicators





## K50L/K30L Specifications

Supply Voltage	K50L Sealed Audible: 12 to 30 V dc K50L AC: 85 to 130 V ac K50L standard: 18 to 30 V dc K30L: 10 to 30 V dc
Construction	Base: polycarbonate Translucent Dome: polycarbonate
Environmental Rating	Standard Models: IEC IP67 Integral QD models meet DIN 40050 (IP69K)  Standard Audible Models (A1, A2, AL1): IP50  Fixed Audible Sealed Models (AS): IEC IP67/ IP69K per DIN 40050  Adjustable Loud Audible Sealed Models (ALS, ALS4): IEC IP67/ IP69K per DIN 40050
Operating Temperature	Sealed Audible: -20 to +50 °C (-4 to +122 °F) All Other Models: -40 to +50 °C (-40 to +122 °F)
Certifications	   



## K50L2/K30L2 Specifications

Power	K50L2: 10 to 30 V dc; 220mA Max. at 10 V dc; 100mA Max. at 30 V dc K30L2: 10 to 30 V dc; 60mA Max. at 10 V dc; 30mA Max. at 30 V dc
Operating Conditions	-40 to +50 °C (-40 to +122 °F)
Construction	Base: polycarbonate Translucent Dome: polycarbonate
Environmental Rating	K50L2: Standard: IEC IP66/IP67/IP69K Standard Audible: IEC IP50 Sealed Audible: IEC IP66/IP67/IP69K  K30L2: IEC IP66/IP67/IP69K
Certifications	 





# Accessories



SMB30A



SMB30SC



SMB30FA



SMB30FVK



SMB22A



SMBAMS22P



SMBAMS22RA

## Cordsets for DC Models

### 4-Pin M12/Euro-Style

use with 3-color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-406RA)



**MQDC-406**  
2 m (6.5')  
**MQDC-415**  
5 m (15')  
**MQDC-430**  
9 m (30')

### 5-Pin M12/Euro-Style

use with 4-color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)

**MQDC1-506**  
2 m (6.5')  
**MQDC1-515**  
5 m (15')  
**MQDC1-530**  
9 m (30')

### 8-Pin M12/Euro-Style

use with 5+ -color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC2S-806RA)

**MQDC2S-806**  
2 m (6.5')  
**MQDC2S-815**  
5 m (15')  
**MQDC2S-830**  
9 m (30')

## Cordsets for AC Models

### 4-Pin Micro-Style

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQAC2-406RA)



**MQAC2-406**  
2 m (6.5')  
**MQAC2-415**  
5 m (15')  
**MQAC2-430**  
9 m (30')

### 5-Pin Micro-Style

Straight connector models

**MQAC2-506**  
2 m (6.5')  
**MQAC2-515**  
5 m (15')  
**MQAC2-530**  
9 m (30')



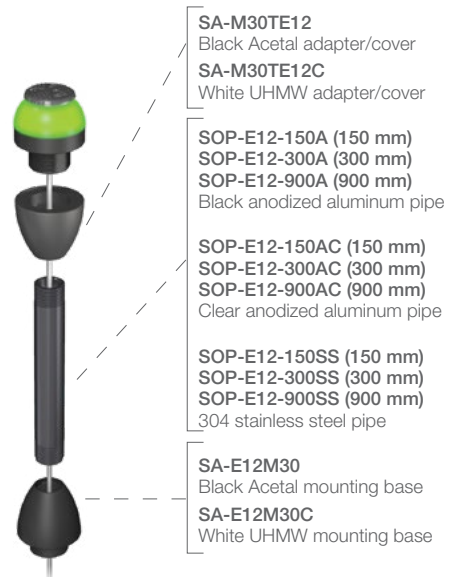
**SA-FFB12**  
Black flush foldable bracket for use with elevated mount systems



**SA-FFB12C**  
Gray flush foldable bracket for use with elevated mount systems

see page 61 for additional information on this bracket

## Elevated Mount System



Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)

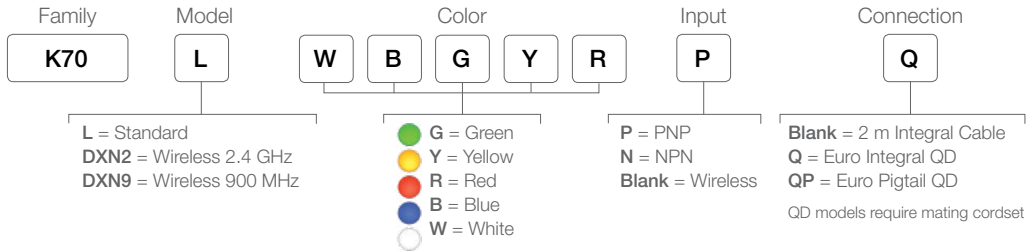


## K70L 70 mm Domed Indicators

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- Bright, uniform indicator light
- All models have flashing input control
- Models are available with up to five colors in one device
- Rugged IP65-rated design
- 12 V to 30 V dc operation
- Wireless models simplify installation and provide a simple operator interface for pick-to-light, call button and general industrial applications

## Standard and Wireless



### Supply Voltage and Current

12 V to 30 V dc; 200 mA Max. at 12 V dc;  
90 mA Max. at 30 V dc

### Supply Protection Circuitry

Protected against reverse polarity, transient voltages

### Construction

Base: polycarbonate  
Translucent Dome: polycarbonate

### Environmental Rating

IEC IP65

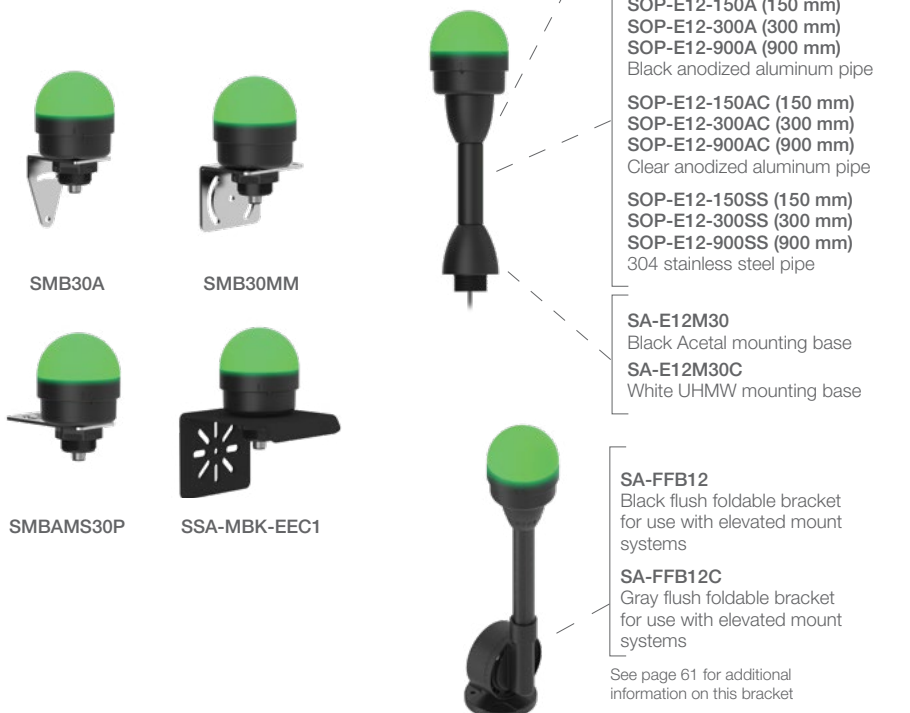
### Operating Temperature

-40 to 50 °C

### Certifications



## Elevated Mount System



### 5-Pin M12/Euro-Style

use with 4-color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)



**MQDC1-506**  
2 m (6.5')  
**MQDC1-515**  
5 m (15')  
**MQDC1-530**  
9 m (30')

### 8-Pin M12/Euro-Style

use with 5+ -color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC2S-806RA)

**MQDC2S-806**  
2 m (6.5')  
**MQDC2S-815**  
5 m (15')  
**MQDC2S-830**  
9 m (30')

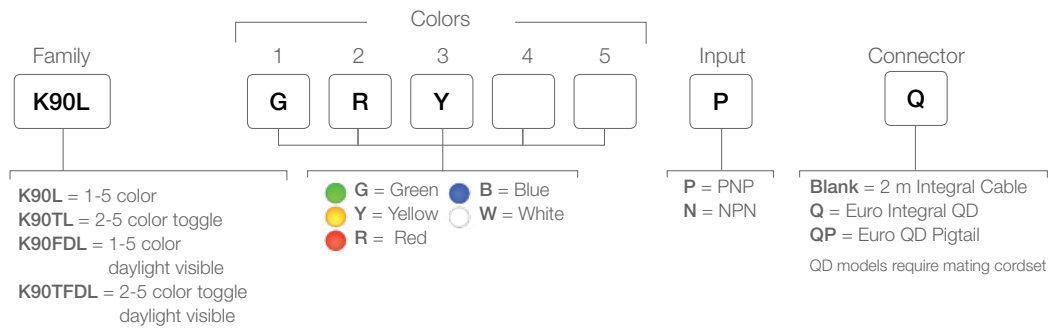
Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)





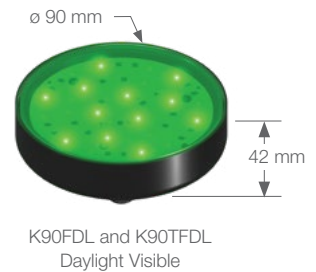
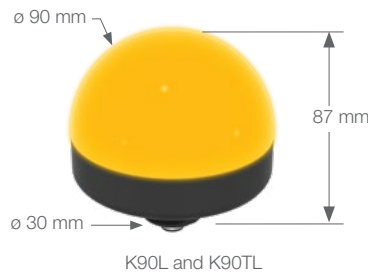
## K90L 90 mm Domed Indicators

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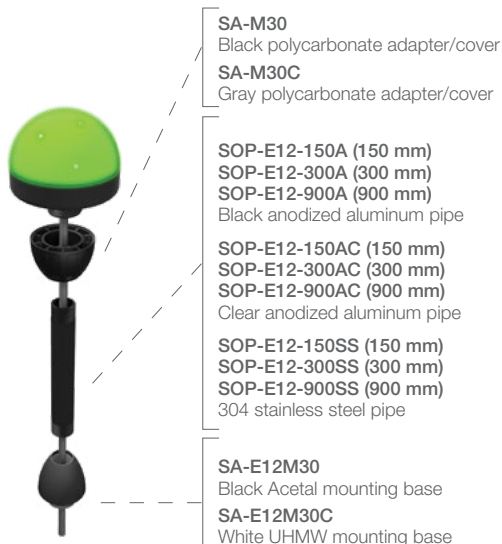
- Bright, uniform indicator light
- Models are available with up to five colors in one device
- Rugged IP67-rated design
- 12 to 30 V dc operation
- Illuminated dome provides easy-to-see operator guidance
- K90TL models alternate between colors when multiple inputs are active
- K90L models have an auxiliary input line for flashing an active input



Supply Voltage	12 to 30 V dc
Construction	Base: polycarbonate Translucent Dome: polycarbonate
Environmental Rating	IP67
Operating Temperature	-40 to +50° C (-40 to +122 °F)
Certifications	 



## Elevated Mount System



**SA-FFB12**  
Black flush foldable bracket for use with elevated mount systems

**SA-FFB12C**  
Gray flush foldable bracket for use with elevated mount systems

See page 61 for additional information on this bracket

**5-Pin M12/Euro-Style**  
use with 4-color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)

**8-Pin M12/Euro-Style**  
use with 5+ -color models

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC2S-806RA)



**MQDC1-506**  
 2 m (6.5')  
**MQDC1-515**  
 5 m (15')  
**MQDC1-530**  
 9 m (30')

**MQDC2S-806**  
 2 m (6.5')  
**MQDC2S-815**  
 5 m (15')  
**MQDC2S-830**  
 9 m (30')

Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)



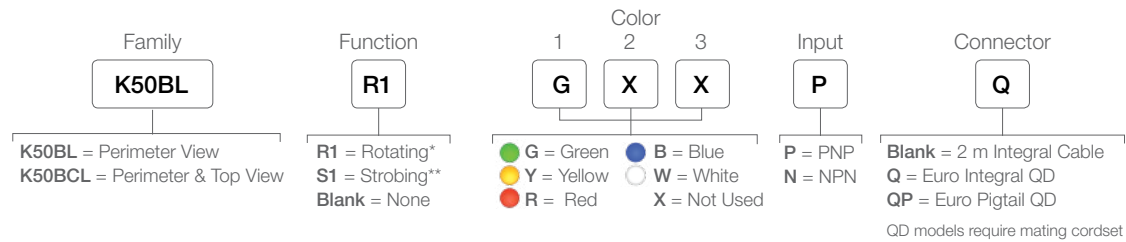
## K50 Beacon Omni-Directional High-Intensity Indicators

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- Continuous, strobing and rotating models available
- Intense levels of light output for outdoor applications
- 12-30 V dc models are ideal for battery-powered mobile applications
- LED lighting emits from the perimeter and top view on some models
- Rugged, sealed thermoplastic housing rated for IP67 and IP69K
- Cabled and quick-disconnect models available



## One-, Two-, or Three-Color DC



\* Rotating only available on K50BL 1-color models

\*\* Strobing only available on K50BCL 1-color models

## One- Color AC



### Supply Voltage

12 to 30 V dc  
85 to 130 V ac  
100 to 250 V ac

### Construction

Base and covers: polycarbonate

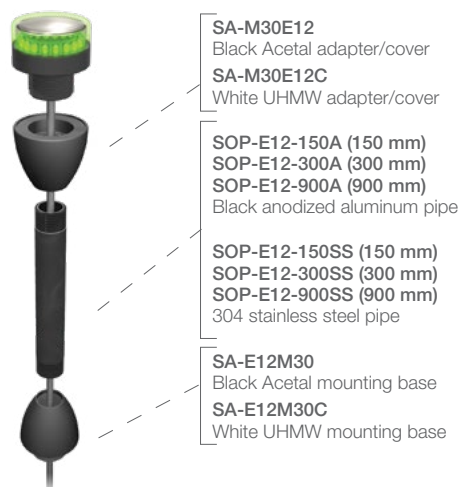
### Environmental Rating

IEC IP67 and IP69K, per DIN 40050

### Operating Temperature

-40 to +50 °C (-40 to +122 °F)

### Certifications



**SA-M30E12**  
Black Acetal adapter/cover  
**SA-M30E12C**  
White UHMW adapter/cover

**SOP-E12-150A (150 mm)**  
**SOP-E12-300A (300 mm)**  
**SOP-E12-900A (900 mm)**  
Black anodized aluminum pipe

**SOP-E12-150SS (150 mm)**  
**SOP-E12-300SS (300 mm)**  
**SOP-E12-900SS (900 mm)**  
304 stainless steel pipe

**SA-E12M30**  
Black Acetal mounting base  
**SA-E12M30C**  
White UHMW mounting base

**4-Pin M12/ Euro-Style**  
Straight connector models listed;  
for right-angle models, add RA  
to the end of model number  
(example, MQDC-406RA)



**MQDC-406**  
2 m (6.5')  
**MQDC-415**  
5 m (15')  
**MQDC-430**  
9 m (30')

**3-Pin M12/Micro-Style**  
Straight connector models listed;  
for right-angle models, add RA  
to the end of model number  
(example, MQDC-306RA)

**MQDC-306**  
2 m (6.5')  
**MQDC-315**  
5 m (15')  
**MQDC-330**  
9 m (30')

Additional accessories are available at  
[bannerengineering.com](http://bannerengineering.com)



see page 61 for additional  
information on this folding bracket



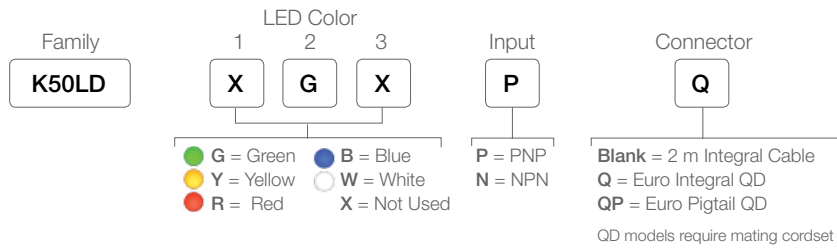
## K50L Daylight Visible Directional Indicators

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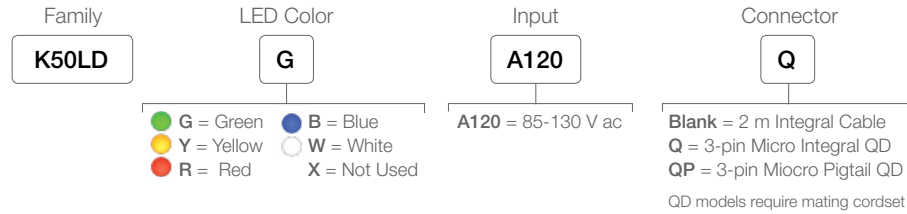
- Intense levels of light output for outdoor applications
- Rugged, cost-effective and easy-to-install
- Compact devices are completely self-contained — no controller needed
- Up to three colors in one housing
- Immune to ambient light, EMI and RFI interference
- 50 mm diameter with flat profile and 30 mm mounting base
- Available in both 18 to 30 V dc and 85 to 130 V ac power options



## One- or Three- Color Indicators, 15 to 30 V dc



## One- Color Indicators, 85 to 130 V ac



Supply Voltage	15 to 30 V dc 85 to 130 V ac
Construction	Polycarbonate; fully encapsulated
Environmental Rating	IEC IP67
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	CE



SMB30SC

SMBAMS30P



K50DS

Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)



**4-Pin M12/ Euro-Style**  
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-406RA)

**3-Pin M12/Micro-Style**  
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-306RA)

**MQDC-406**  
2 m (6.5')  
**MQDC-415**  
5 m (15')  
**MQDC-430**  
9 m (30')

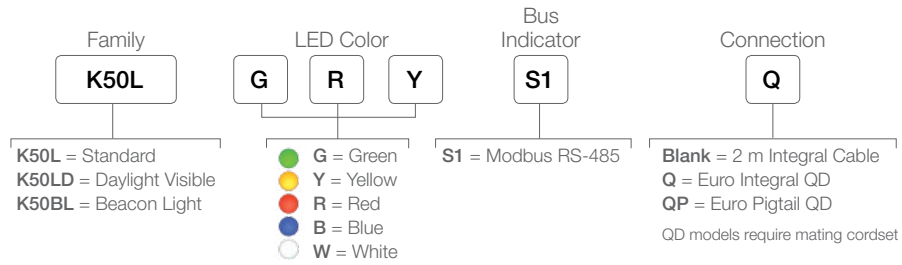
**MQDC-306**  
2 m (6.5')  
**MQDC-315**  
5 m (15')  
**MQDC-330**  
9 m (30')





## K50 Modbus Indicators

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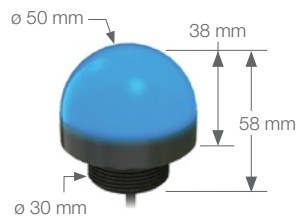
- Rugged, compact multi-color indicators in several package types
- Built-in flashing and strobing capability
- High intensity models for outdoor applications
- Fully encapsulated IP67/IP69K construction
- Modbus RTU communication minimizes the cabling requirements



Supply Voltage	12 to 30 V dc
Construction	Base: Polycarbonate Covers: Polycarbonate LEDs on LD Models: Acrylic
Environmental Rating	IEC IP67/IP69K per DIN 40050
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	 



K50BL Models



K50L Models



K50LD Models



SMB30A



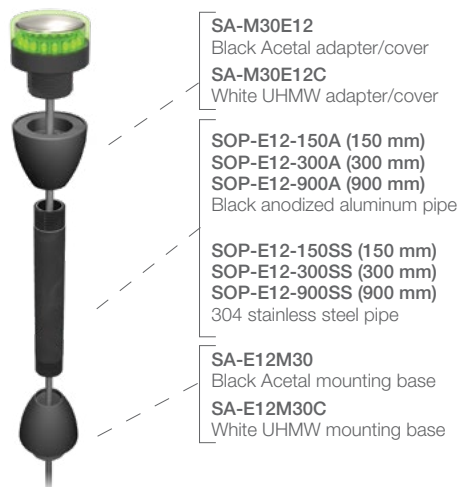
SMB30FA



SMB30SC



SMBAMS30P



see page 61 for additional information on this folding bracket

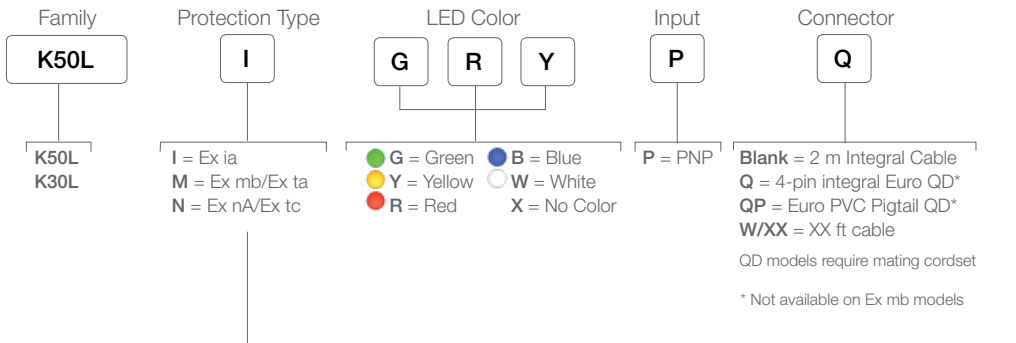
Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)



## K50 and K30 Hazardous Indicators

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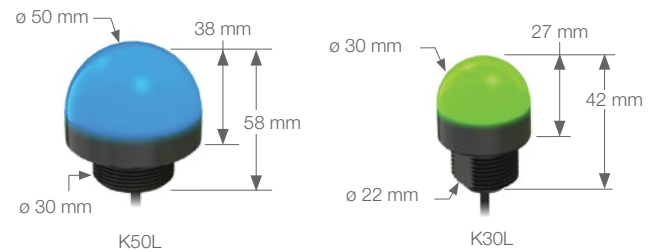
- Up to three colors in one device and five colors to choose from
- Models rated to IP67 and IP69K for use in harsh environments
- Unique design appears gray when off, eliminating false indication from ambient light
- Easy mounting and configuration
- Extensive approvals ensure indicator lights are safe to use in most classified zones or areas.
- Worldwide IECEx approval for quicker access into countries outside Europe and North America



Indicator Family	Protection Method	Suitable for ATEX	Suitable for NEC & CEC
Ex ia	Intrinsically Safe	Gas Zones: 0, 1, & 2 Dust Zones: 20, 21, & 22 Mines	Gas zones: 0, 1, & 2 Class I Division 1 & 2 Class II/III Division 1 & 2
Ex mb/Ex ta	Encapsulation/Enclosure	Gas Zones: 1 & 2 Dust Zones: 20, 21 & 22	Gas zones: 1 & 2 Class I Division 2 Class II/III Division 1 & 2**
Ex nA/Ex tc	Non-Sparking/Enclosure	Gas Zones: 2 Dust Zones: 22	Gas zones: 2 Class I Division 2 Class II/III Division 2**

\*\* Available on K50L models only

Supply Voltage	Ex ia: 8 to 30 V dc Ex mb/Ex ta and Ex nA/Ex tc: 10 to 30 V dc
Construction	Base: polycarbonate Translucent Dome: polycarbonate
Environmental Rating	IP67, IP69K
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	CE, cULus, IEC, IECEx, Ex



**4-Pin M12/Euro-Style**  
Straight connector models listed;  
for right-angle models, add RA  
to the end of model number  
(example, MQDC-406RA)



MQDC-406  
2 m (6.5')  
MQDC-415  
5 m (15')  
MQDC-430  
9 m (30')

Additional accessories are available at  
[bannerengineering.com](http://bannerengineering.com)

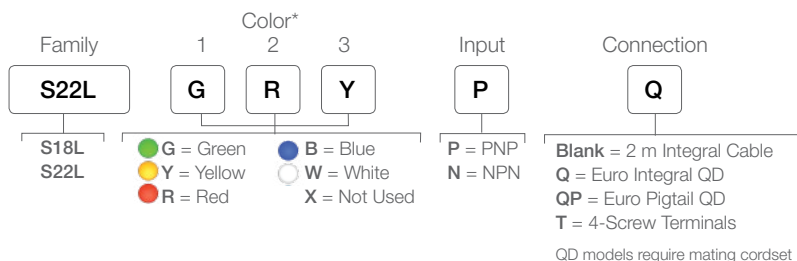


## S18L & S22L Barrel Indicators

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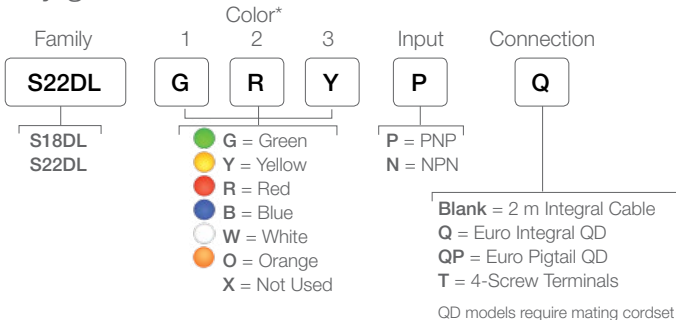
- Gasketed face flange for sealing to enclosures
- IP69K rated to withstand harsh wash-down environments
- Daylight visible models are also available for areas with high levels of ambient light
- M12 Euro connector models available for plug-and-play indication
- 10 to 30 V dc operating range allows for use in battery-powered mobile applications
- Terminal-wired models available to simplify panel wiring
- Up to three independent colors in one unit
- Translucent face appears gray when off to avoid false indication
- Multiple colors available, including green, red, yellow, blue, white, orange
- Available with PNP or NPN input, depending on model

## Standard



Laser  
Marking  
Available

## Daylight Visible



## Daylight Visible High-Intensity



\* Single-color models are available and should be ordered as PNP, but can be wired for either PNP or NPN input

### Supply Voltage

General Purpose: 10 to 30 V dc  
High-Intensity Models: 9 to 30 V dc

### Construction

Housing: UV stabilized polycarbonate  
Mounting Nut: PBT  
Sealing Washer: Nitrile

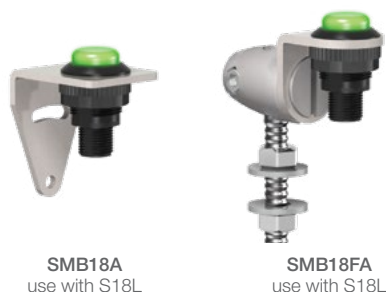
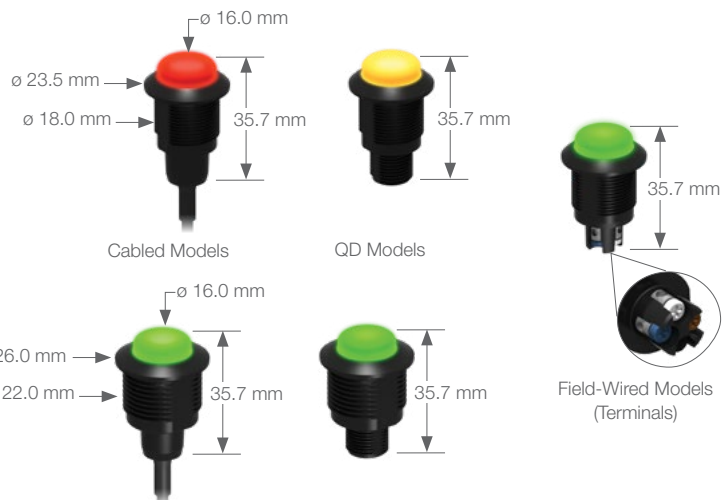
### Environmental Rating

IEC IP67, IP69K, per DIN 40050

### Operating Temperature

General Purpose: -40 to +50 °C (-40 to +122 °F)  
Other Models: -40 to +60 °C (-40 to +140 °F)

### Certifications



**4-Pin M12/Euro-Style**  
Straight connector models listed;  
for right-angle models, add RA  
to the end of model number  
(example, MQDC-406RA)



**MQDC-406**  
2 m (6.5')  
**MQDC-415**  
5 m (15')  
**MQDC-430**  
9 m (30')

Additional accessories are available at  
[bannerengineering.com](http://bannerengineering.com)





## S22L2 Flush Mount Indicator

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- Bright, even indication in red, green, blue, yellow, cyan, magenta, and white
- Models constructed from FDA-grade materials available for use in food and beverage applications
- Terminal connector options for fast, economical installation in panels
- Flush design matches S22 Touch buttons, see page 102





#### Supply Voltage

10 to 30 V dc

#### Construction

Housing: Polycarbonate or FDA grade plastic, depending on model  
 Translucent dome: Polycarbonate or FDA grade plastic, depending on model  
 Mounting Nut: PBT or FDA food grade plastic

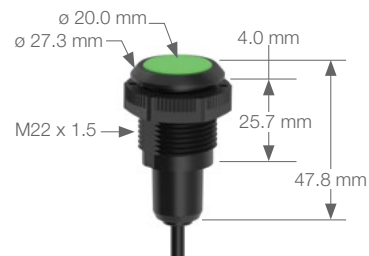
#### Environmental Rating

Standard: UL Type 4x, 13  
 FDA Grade: UL Type 4x (indoor)  
 Cable, Pigtail, QD models: IEC IP66, IP67, IP69K per DIN 40050-9  
 Terminal models: IEC IP66, IP69K per DIN 40050-9 on front only

#### Operating Conditions

Temperature: -40 to +50 °C  
 Storage Temperature: -40 to +70 °C

#### Certifications



Cabled Models



Field-Wired Models (Terminals)



QD Models

Laser Marking Available



SMB22A



SMB22FVK



SMBAMS22P

#### 5-Pin Euro-Style

Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)

**MQDC1-506**  
 2 m (6.5')  
**MQDC1-515**  
 5 m (15')  
**MQDC1-530**  
 9 m (30')

**5-pin M12 Euro-Style Washdown Cordset**  
 Straight connector models only

**MQDC-WDSS-0506**  
 2 m (6.5')  
**MQDC-WDSS-0515**  
 5 m (15')  
**MQDC-WDSS-0530**  
 9 m (30')

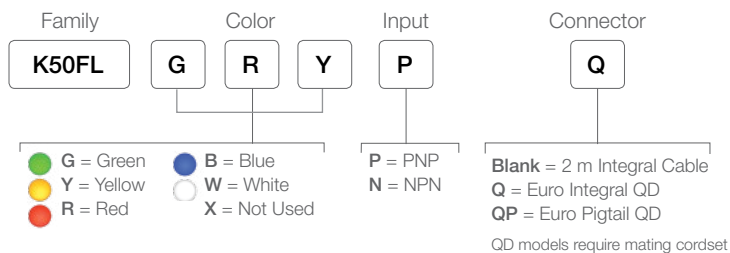
Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)



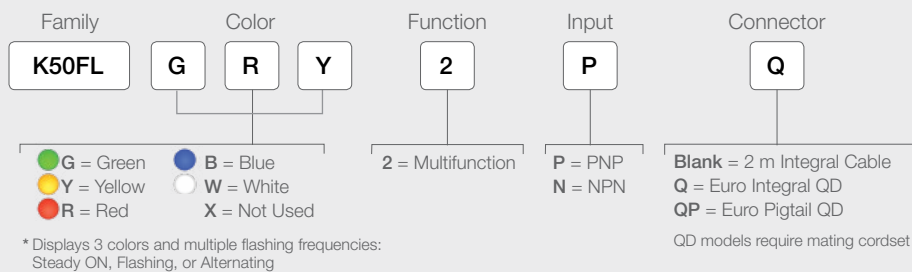
## K50FL Flat-Mount Domed Indicators

- 
- Rugged, cost-effective and easy-to-install indicators
  - Low power consumption LED design will provide years of reliable service
  - Fully encapsulated IP67, IP69K
  - Illuminated dome provides easy-to-see operator guidance and indication of equipment status
  - Compact devices are completely self-contained — no controller needed
  - 18 to 30 V dc operation
  - Displays up to five colors
  - Immune to EMI and RFI interference

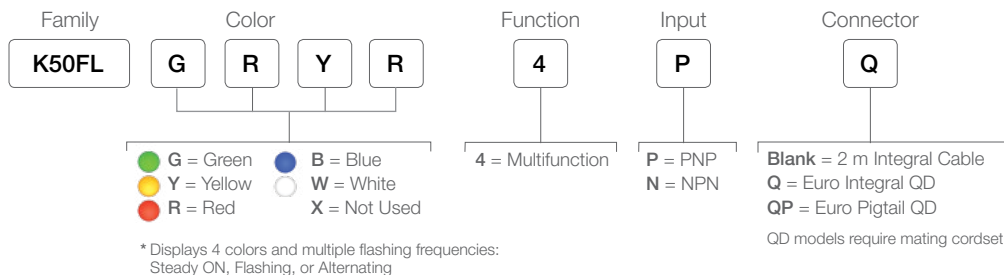
## One-, Two- or Three-Color, 18 to 30 V dc



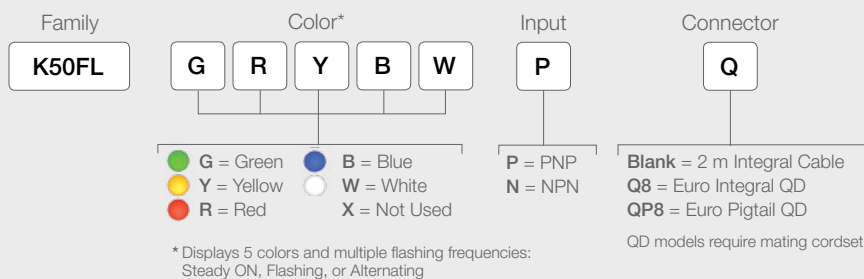
## Three-Color Multifunction



## Four-Color Multifunction



## Five-Color Multifunction



Supply Voltage	18 to 30 V dc
Construction	Base: ABS Dome: Polycarbonate
Environmental Rating	IP67, IP69K
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	CE

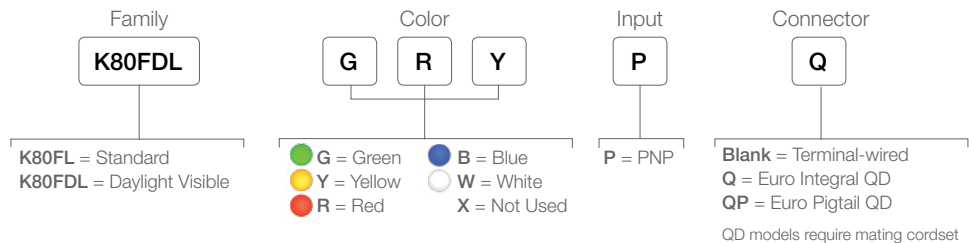
**4-Pin M12/Euro-Style**  
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC-406RA)

4-Pin	5-Pin	8-Pin
<b>MQDC-406</b> 2 m (6.5')	<b>MQDC1-506</b> 2 m (6.5')	<b>MQDC2-806</b> 2 m (6.5')
<b>MQDC-415</b> 5 m (15')	<b>MQDC1-515</b> 5 m (15')	<b>MQDC2-815</b> 5 m (15')
<b>MQDC-430</b> 9 m (30')	<b>MQDC1-530</b> 9 m (30')	<b>MQDC2-830</b> 9 m (30')

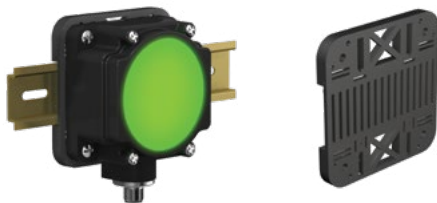
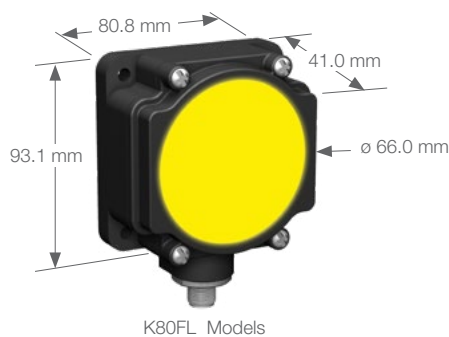


## K80FL and K80FDL Flat-Mount Indicators

- Selection of solid or flashing light operation with internal DIP Switch
- Multicolor, single segment
- Bright, even LED light gray when OFF
- Unique shape for use in various indication applications
- Sealed to IP67 for durability in many environments
- Large, flat face allows for clear indication from greater distances
- Transparent self-adhesive cover labels can be printed for easy identification
- Daylight visible models available



Supply Voltage	12 to 30 V dc
Construction	Base: Polycarbonate Translucent Face: Acrylic
Environmental Rating	IEC IP67
Operating Conditions	-40 to +50 °C (-40 to +122 °F)
Certifications	<b>CE</b>



**SMBDX80DIN**  
for mounting to 35 mm DIN Rail



**4-Pin M12/Euro-Style**  
Straight connector models listed;  
for right-angle models, add RA  
to the end of model number  
(example, MQDC-406RA)

**MQDC-406**  
2 m (6.5')  
**MQDC-415**  
5 m (15')  
**MQDC-430**  
9 m (30')

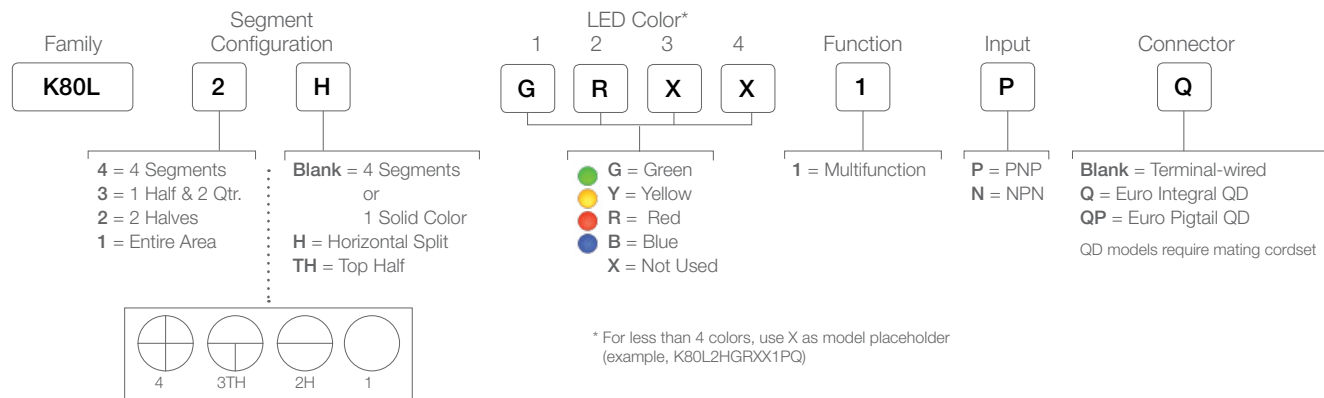
Additional accessories are available at  
[bannerengineering.com](http://bannerengineering.com)



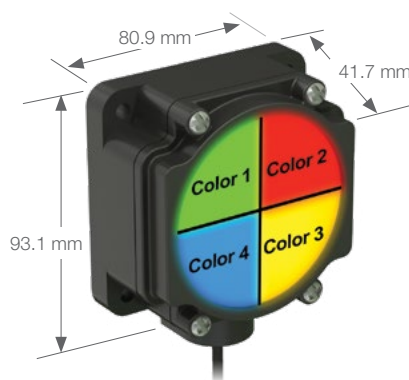
## K80 Segmented Indicators

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- Individual color quadrants can be lighted separately or in combination
- For error-proofing and "Andon" applications
- Provides operator guidance, even for those with limited color recognition ability
- Optional labels for enhanced segment identification
- Mounts easily on flat surface or pipe for elevated use
- PNP (sourcing) or NPN (sinking) input type, depending on model
- Flash functionality available on one-color models



Supply Voltage	18 to 30 V dc
Construction	Base: ABS/Polycarbonate Translucent Face: Acrylic
Environmental Rating	IEC IP67
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	CE



**SMBDX80DIN**  
for mounting to 35 mm DIN Rail

#### Segmented Indicator Label Kits

**SALK-K80L4**  
4-segment transparent laser label (includes 30 labels and 1 protective cover labels)

**SALK-K804-0**  
1-segment transparent laser label (includes 30 labels)

**5-Pin M12/ Euro-Style**  
Straight connector models listed; for right-angle models, add RA to the end of model number (example, MQDC1-506RA)



**MQDC1-506**  
2 m (6.5')  
**MQDC1-515**  
5 m (15')  
**MQDC1-530**  
9 m (30')

Additional accessories are available at [bannerengineering.com](http://bannerengineering.com)



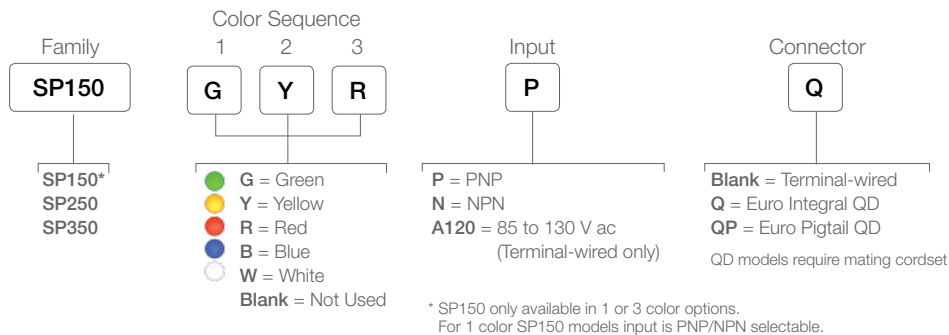


## SP Series Signal Lights

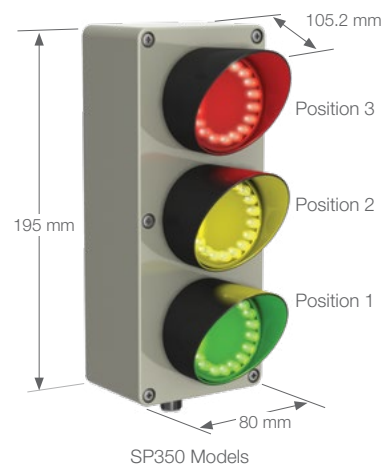
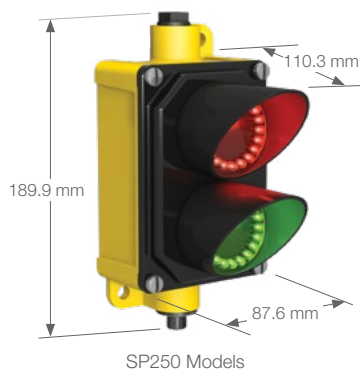
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- Intense levels of light output for outdoor applications
- Controlled field of view for signage and narrow lane use
- Rugged, cost-effective and easy-to-install
- Compact devices are completely self-contained — no controller needed
- Immune to EMI and RFI interference
- Choose NPN or PNP input, and 15 to 30 V dc or 85-130 V ac operation, depending on model





Supply Voltage	15 to 30 V dc 85 to 130 V ac
Construction	Flat or DIN-mount polycarbonate
Environmental Rating	SP150: IEC IP67 SP250: IEC IP65 SP350: IEC IP65
Operating Conditions	-40 to +50 °C (-40 to +122 °F)
Certifications	CE



4-Pin M12/Euro-Style  
straight connector models listed;  
for right-angle models, add RA  
to the end of model number  
(example, MQDC-406RA)

Additional accessories are available at  
[bannerengineering.com](http://bannerengineering.com)