

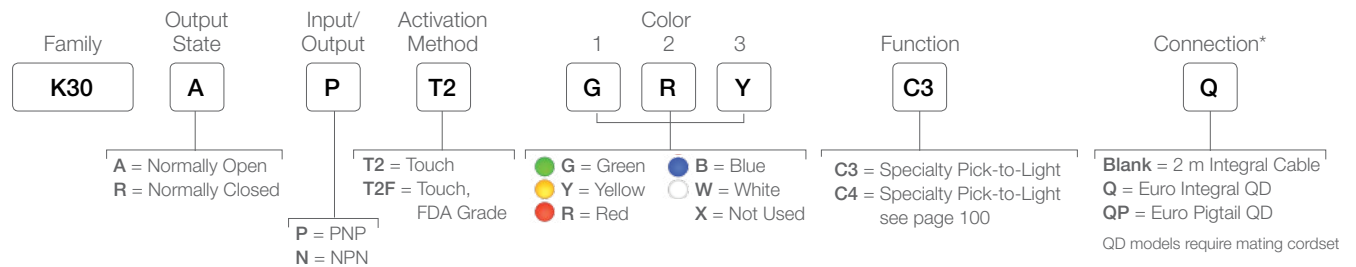


K30 Pick-to-Light Touch Buttons

- Ergonomic design requires no physical pressure to operate, preventing stress on hands and wrists
- Simple operation with the touch of a finger; easily actuated with bare hands or work gloves
- Rugged, fully encapsulated IP69K construction for high-pressure wash-down environments; Models with food grade materials available
- Models with either latching or momentary outputs
- Ideal for pick-to-light and call button applications in a variety of industries
- One-, two-, or three-color models available to solve a variety of applications
- Smart electric field sensing provides excellent immunity to false triggering from water spray, detergents and other foreign materials
- Superior electrical noise immunity

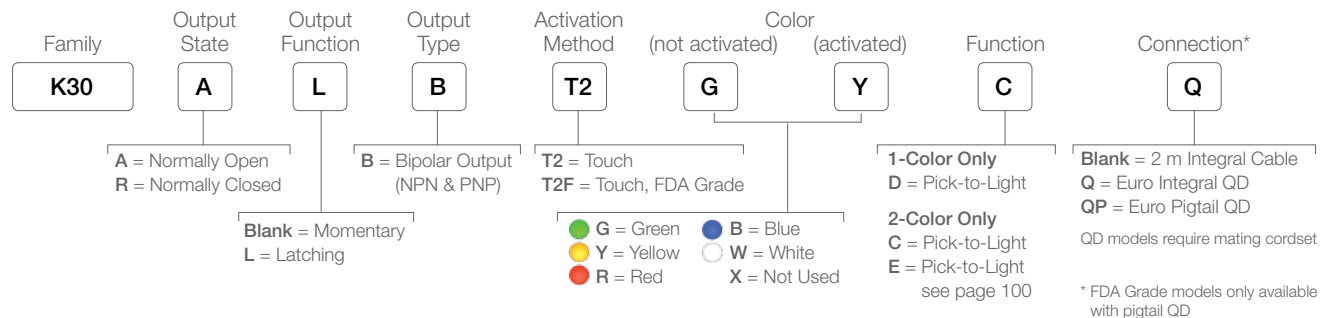
Independent Input/Output Models with up to Three Indicator Colors Controlled by Separate Inputs

The output is activated by touching the device and is totally independent of the indicator inputs.



One- or Two-Color Momentary or Latching Bipolar (1 NPN and 1 PNP) Output Models

These models do not have inputs to control the indicator. The color of the indicator is determined by the non-activated or activated condition.



Supply Voltage

12 to 30 V dc

Construction

Housing: Polycarbonate
Translucent dome: Polycarbonate
Mounting Nut: PBT

Environmental Rating

IEC IP67, IP69K per DIN 40050

Operating Temperature

-40 to +50 °C (-40 to +122 °F)

Certifications



K30 Touch
FDA Grade

Laser
Marking
Available



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')

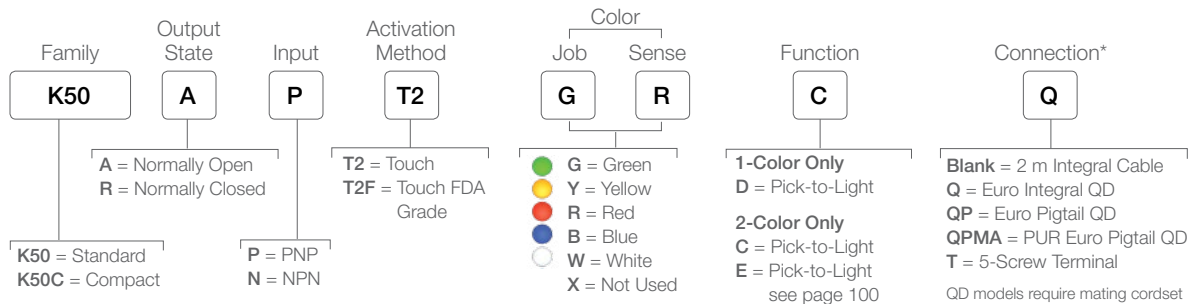
Additional accessories are available at
bannerengineering.com



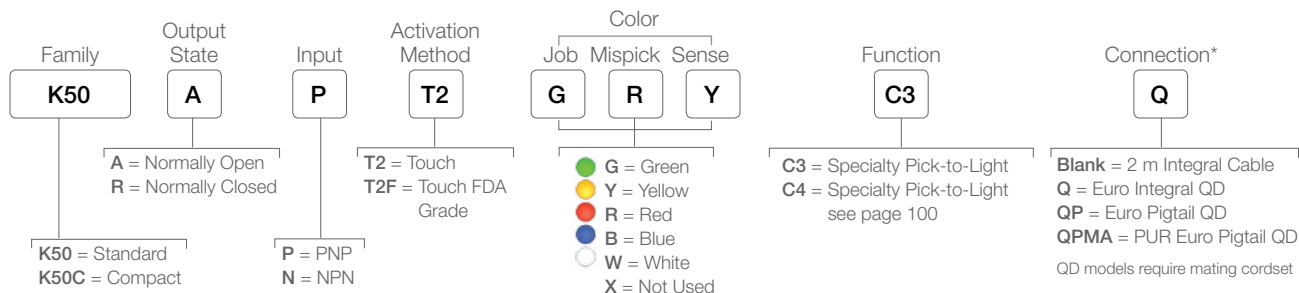
K50 Pick-to-Light Touch Buttons

- Ergonomic design requires no physical pressure to operate, preventing stress on hands and wrists
- Simple operation with the touch of a finger, hand or whole palm
- Easily actuated with bare hands or work gloves
- Rugged, fully encapsulated IP69K construction for high-pressure wash-down environments
- Models with either latching or momentary outputs
- Ideal for pick-to-light and call button applications in a variety of industries
- One-, two- and three-color models available to solve a variety of applications



One- or Two-Color



Three-Color



* FDA Grade models only available with pigtail QD

Supply Voltage	12 to 30 V dc
Construction	Housing: Polycarbonate Translucent dome: Polycarbonate Mounting Nut: PBT
Environmental Rating	Standard: UL Type 4x, 13 FDA Grade: UL Type 4x IEC IP67, IP69K per DIN 40050
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	 



Additional accessories are available at
bannerengineering.com

4-Pin M12/Euro-Style

For use with K30 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

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

For use with 3 color F2 models.

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

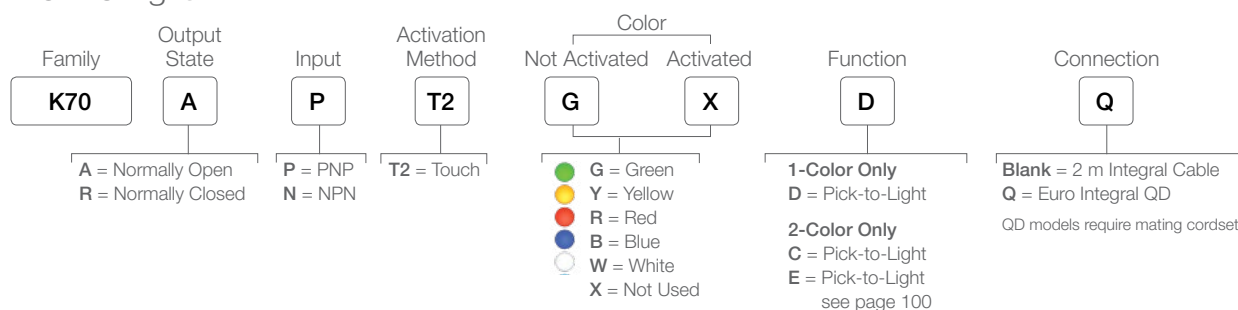
MQDC2S-806
2 m (6.5')
MQDC2S-815
5 m (15')
MQDC2S-830
9 m (30')



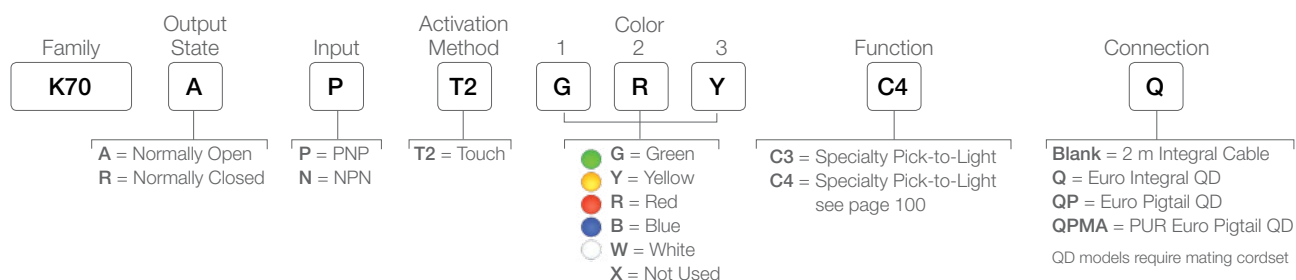
K70 Illuminated Pick-to-Light Touch Button

- Excellent immunity to false triggering by water spray, detergents, oils, and other foreign materials
- Ergonomically designed to eliminate hand, wrist, and arm stresses associated with repeated switch operation; requires no physical force to operate
- Can be actuated with bare hands or work gloves
- Rugged IP65 polycarbonate construction
- Momentary versions remain activated as long as touch is present
- Latching versions start up not activated and toggle between activated and not activated on successive touches
- One-, two- and three-color models available

Pick-To-Light



Specialty Models



Supply Voltage and Current

12 V to 30 V dc; 220 mA Max. at 12 V dc;
110 mA Max. at 30 V dc

Supply Protection Circuitry

Protected against transient voltages

Construction

Housing: Polycarbonate
Dome: Polycarbonate

Environmental Rating

IEC IP65

Operating Temperature

-40 to 50 °C

Certifications



Laser
Marking
Available



SMB30A



SMB30MM



SMBAMS30P



SSA-MBK-EEC1



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



K50 Optical Pick-to-Light Series



- Rugged, cost-effective and easy-to-install solutions for error-proofing and parts-verification applications
- Illuminated dome provides easy-to-see job light status
- Choose either polarized retro-reflective or fixed-field models
- Fully encapsulated IP67 construction

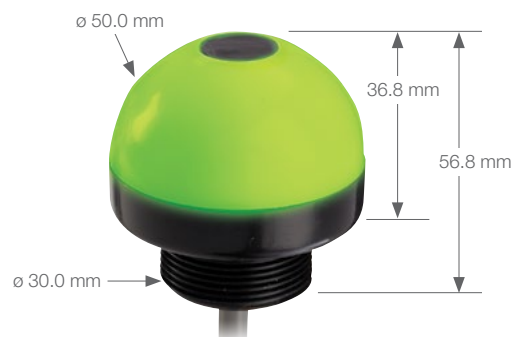
One- or Two-Color Models



Three-Color Models



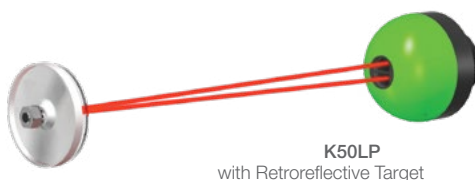
Sensing Range	Polarized Retroreflective: 2.0 m Fixed-field: 50 mm or 100 mm
Supply Voltage	12 to 30 V dc
Construction	Housing: Polycarbonate Translucent dome: Polycarbonate Mounting Nut: PBT
Environmental Rating	IEC IP67, IP69K per DIN 40050
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	  Some models pending. Contact factory for additional information.



SMB30A

SMB30FA

SMB30RAVK



K50LP
with Retroreflective Target

**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')



Retroreflective Targets
BRT-2X2
BRT-35X35B
BRT-51X51BM
BRT-50D
BRT-100X18A

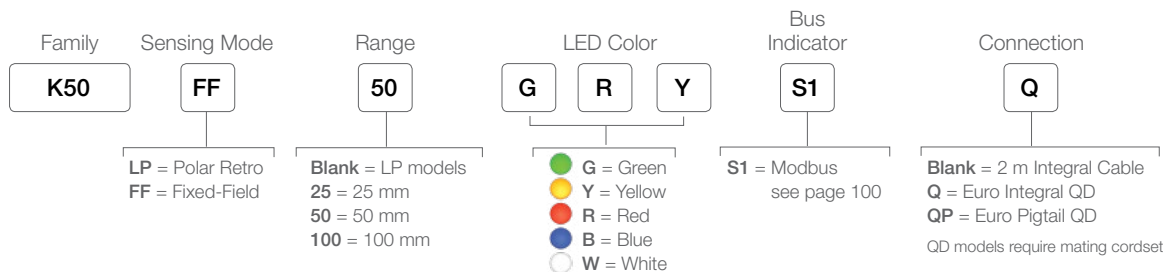
Retroreflective Tape
BRT-THG-1-100
BRT-THG-2-100
BRT-THG-3-100
BRT-TVHG-2X2

Additional accessories are available at
bannerengineering.com

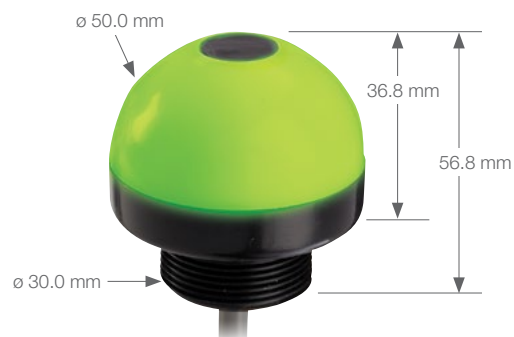


K50 Modbus Pick-to-Light Series

- Rugged, cost-effective and easy-to-install solutions for error-proofing and parts-verification applications
- Illuminated dome provides easy-to-see job light status
- Choose either polarized retroreflective or fixed-field models
- Fully encapsulated IP67 construction
- User can customize or select standard function configurations
- Modbus communication minimizes the cabling and system programming requirements



Sensing Range	Polarized Retroreflective: 2.0 m Fixed-field: 50 mm or 100 mm
Supply Voltage	12 to 30 V dc
Construction	Housing: Polycarbonate Translucent dome: Polycarbonate Mounting Nut: PBT
Environmental Rating	IEC IP67
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	CE



SMB30A



SMB30FA



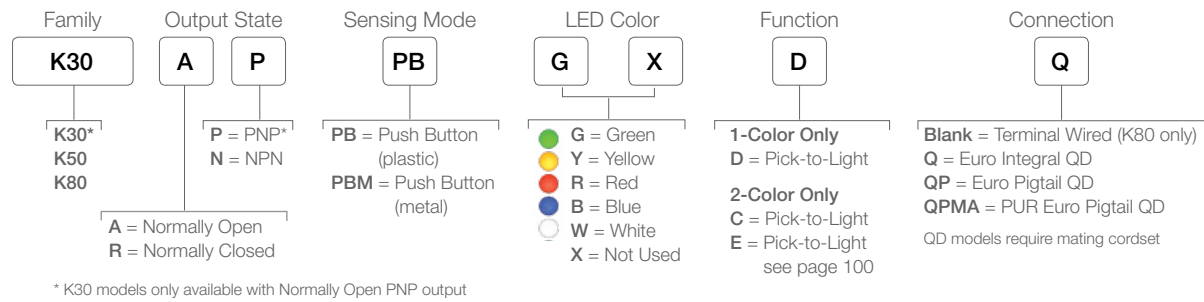
SMB30RAVK



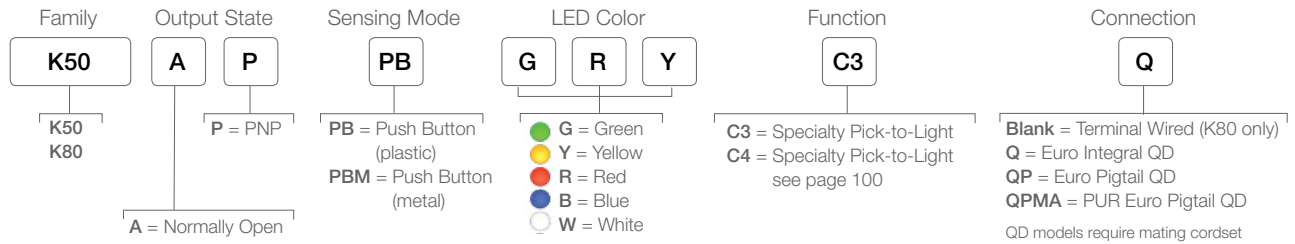
K30/K50/K80 Push Button Pick-to-Light Series



- Illuminated dome provides an easy-to-see green job light some models also light red for alternate operation
- Up to three independent colors in one unit
- Waterproof IP65 construction for wet environments
- Immune to EMI and RFI interference
- 12 to 30 V dc operation
- Cabled and Quick Disconnect models available

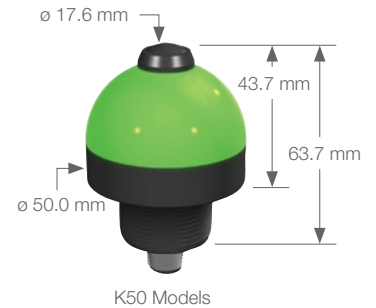
One- or Two-Color



Three-Color



Supply Voltage	12 to 30 V dc
Construction	Base and Translucent Dome: Polycarbonate Push Button: Thermoplastic or Stainless Steel
Environmental Rating	K30: IP65 Other models: IP67
Operating Temperature	-40 to +50 °C (-40 to +122 °F)
Certifications	 



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')

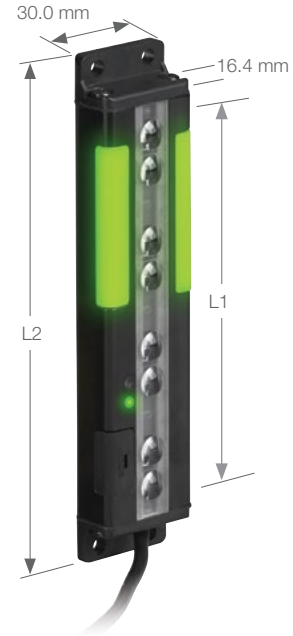
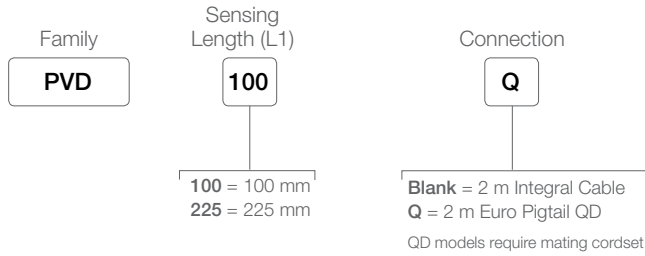


Additional accessories are available at
bannerengineering.com



PVD Diffuse/Retroreflective Parts Verification Array

- One-component system, easy to mount and even easier to use. Automatically operates in either diffuse or retroreflective mode, depending on the application
- Automatic setup and adjustment; wide beam pattern provides easy alignment
- Range up to 2 m (6.5 ft) when used with retroreflective target; 400 mm (15.7 in) when used in diffuse mode
- Large job lights on either side of the metal housing can be remotely controlled to initiate user action with a solid or a blinking green light; job lights turn red to indicate bin-picking errors
- Compact package size; only 30 mm wide x 15 mm deep (1.2 in x 0.6 in)
- Available in 2 lengths to fit existing parts bin sizes and configurations
- Heavy-duty protective brackets available



Sensing Range	Retroreflective: 2 m Diffuse: 400 mm
Supply Voltage	12 to 30 V dc
Construction	Housing: Black painted aluminum Lenses: Acrylic End Caps: Thermoplastic Switch Cover: Thermoplastic
Environmental Rating	NEMA 2; IEC IP62
Operating Temperature	0 to +50 °C (+32 to 122 °F)
Certifications	CE cULus

Models	No. of Beams	Sensing Length (L1)	Overall Length (L2)
PVD100	4	100 mm	137.8 mm
PVD225	8	225 mm	266.4 mm



4-Pin M12/Euro-Style

For use with K30 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

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

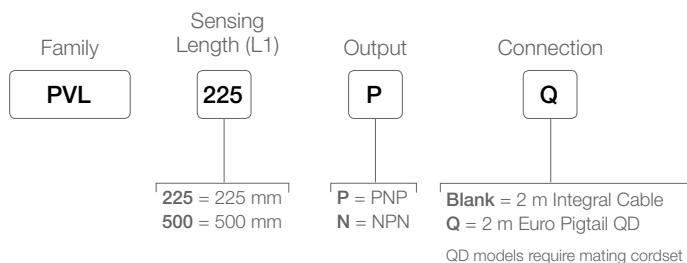
MQDC1-506
2 m (6.5')
MQDC1-515
5 m (15')
MQDC1-530
9 m (30')

Additional accessories are available at
bannerengineering.com

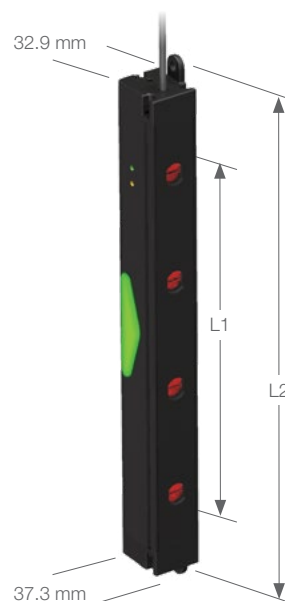


PVL Retroreflective Parts Verification Array

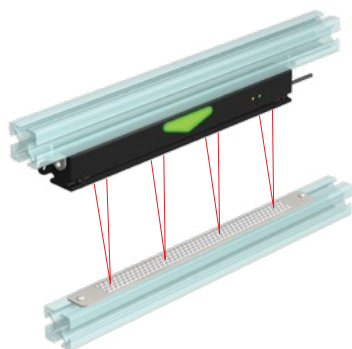
- Cost-effective coverage with the highest reliability
- Opto-mechanical alignment with bright red emitter beams allows for easy setup
- Easy installation with no assembly required
- Can mount directly to racking profile vertically or horizontally
- Rugged, metal compact housing for high durability
- Highly visible, two-color integrated job LED arrows for confirmation of correct pick or indication of mis-pick
- Retroreflective tape can be placed on adjacent unit or one of the brackets for reduced installation costs
- Large mounting holes for securing directly to slotted racking systems
- Slotted housing design allows cable to exit on either end



Sensing Range	Retroreflective: 1.5 m
Supply Voltage	12 to 30 V dc
Construction	Housing: aluminum anodized Translucent Indicator: polycarbonate
Environmental Rating	IP50
Operating Temperature	0 to +50 °C (+32 to 122 °F)
Certifications	CE



Models	No. of Beams	Sensing Length (L1)	Hole-to-Hole Length (L2)
PVL225	4	225 mm	327.5 mm
PVL500	8	500 mm	608.0 mm



SMBPVL1 and
SMBPVL2-225 or -500



SMBPVL4 and SMBPVL3-225 or -500
for use on 28 mm pipe



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

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



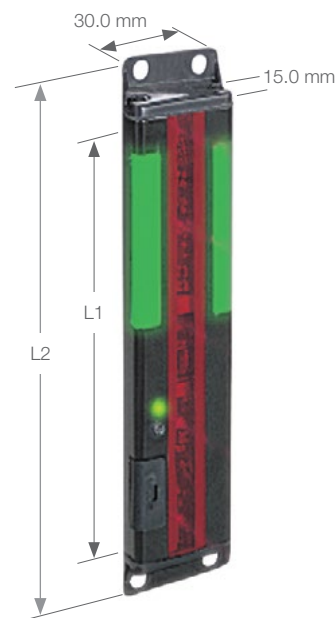
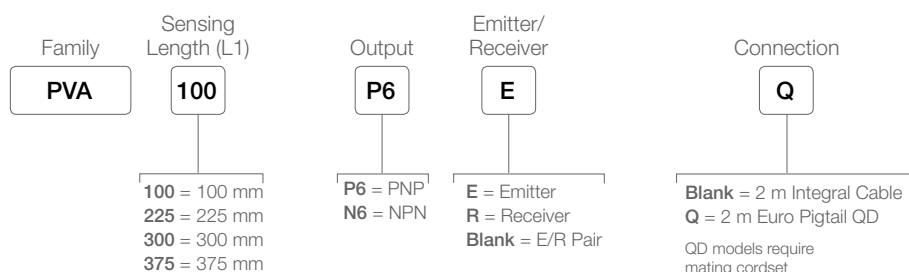
BRT-THG-1-100
Replacement retroreflective tape
BRT-84X84A
Long Range Reflectors



Additional accessories are available at bannerengineering.com



PVA Opposed-Mode Parts Verification Array

- Compact package, available in 4 lengths to fit many sizes and configurations of existing parts bins
- Range up to 2 m (6.5 ft)
- Two-component system (asynchronous emitter and receiver) needs no sync wire or controller box.
- Clearly visible green job indicator lights mounted on either side of emitter and receiver housings; the light can be remotely controlled to initiate user action with a solid ON or blinking condition
- Two frequency settings to prevent crosstalk in close-proximity, multiple-array installations
- Heavy-duty protective brackets available



Sensing Range	2 m
Supply Voltage	12 to 30 V dc
Construction	Housing: Black painted aluminum Lenses: Acrylic End Caps: PBT Switch Cover: Thermoplastic
Environmental Rating	NEMA 2; IEC IP62
Operating Temperature	0 to +50 °C (+32 to 122 °F)
Certifications	 

Models	No. of Beams	Sensing Length (L1)	Overall Length (L2)
PVA100	5	100 mm	137.8 mm
PVA225	10	225 mm	266.4 mm
PVA300	13	300 mm	341.4 mm
PVA375	16	375 mm	416.6 mm



4-Pin M12/Euro-Style
Straight connector models listed; for right-angle, add RA to the end of the 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