

Datasheet





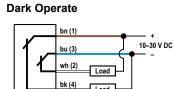
WARNING:

- Do not use this device for personnel protection ٠
- Using this device for personnel protection could result in serious injury or death. ٠
- 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 deenergized (off) output condition.

Models

Model	Beams	Supply Current	Range	Sensing Mode	Output
SAB-497RB1LP6-Q5E	6	150 mA	1 m (39 in) when using a BRT-THG-2 reflector tape as a target 3 m (118 in) when using side-by-side BRT-92×92C reflectors or side-by-side BRT-77×77C reflectors as targets	Polarized Retroreflective, Visible Red 624 nm	Dark Operate, Bipolar
SAB-497AB1LP6-Q5E	6	150 mA			Light Operate, Bipolar
SAB-998RB1LP13-Q5E	13	150 mA			Dark Operate, Bipolar
SAB-484RB1LP10-Q5E	10	150 mA			Dark Operate, Bipolar
SAB-497RB1DS6-Q5E	6	150 mA	200 mm (8 in) when using a 90% white card as a target 762 mm (30 in) when using a 90% white card as a target	Diffuse, Infrared, 940 nm	Dark Operate, Bipolar
SAB-497AB1DS6-Q5E	6	150 mA			Light Operate, Bipolar
SAB-998AB1DXL13-Q5E	13	325 mA			Light Operate, Bipolar

Wiring Diagram



l oad

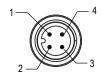
Light Operate bn (1) 10-30 V dc bu (3) wh (2) Load bk (4) Load

1. Brown

Key

- 2. White 3. Blue
- 4. Black

4-Pin Male Connector

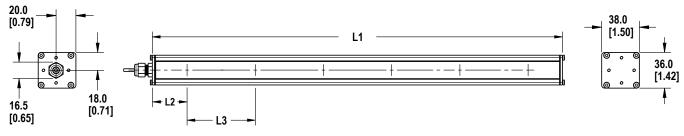




Specifications

Supply Voltage and Current	Sensing Beam	
10 V DC to 30 V DC (10% max. ripple)	Polarized Retroreflective: Visible red, 624 nm	
Supply Protection Circuitry	Diffuse: Infrared, 940 nm	
Protected against reverse polarity and transient voltages	Output Response	
Output Configuration	Polarized Retroreflective: 1.5 ms on/off	
Solid-state Bipolar: NPN and PNP (current sinking and sourcing)	Diffuse: 3 ms on/off	
Rating: 100 mA maximum each output at 25 °C	Operating Conditions	
Off-state leakage current:	-20 °C to +55 °C (-4 °F to +131°F)	
NPN: less than 200 µA at 30 V DC	95% at +50 °C maximum relative humidity (non-condensing)	
PNP: less than 10 μÅ at 30 V DC	Environmental Rating	
On-state saturation voltage:	IP50	
NPN: less than 1.6 V at 100 mA	Indicators	
PNP: less than 3.0 V at 100 mA	Green on: Power on	
Protected against false pulse on power-up and continuous overload or short	Amber on: Output on	
circuit of outputs.	Sensor Amber on: Light sensed	
	Connection 150 mm (6 in) PVC cable with a 4-pin M12 male quick disconnect	

Dimensions



Length	First Beam	Beam to Beam
L1	L2	L3
496.3 mm (19.5 in)	42.0 mm (1.7 in)	82.6 mm (3.25 in)
998 mm (39.3 in)	42.0 mm (1.7 in)	72.6 mm (3.00 in)

Accessories

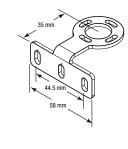
The SABRW is a replacement window for the diffuse model Sensor Array Bar. Replacement windows are available in the lengths listed below. The replacement window attaches using the pre-installed adhesive tape.

Replacement Window Model	Sensor Length	Window Material	Material Thickness
SABRW998P	998 mm	Polycarbonate 1	1.5 mm (0.06 in)

Brackets

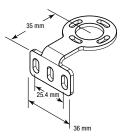
SMBSAB-IN

- Mounting bracket facing in
- 12 gauge steel



SMBSAB-OUT

- Mounting bracket facing out
- 12 gauge steel



¹ For diffuse model Sensor Array Bars only

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For patent information, see www.bannerengineering.com/patents.

FCC Part 15 Class B

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. 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 dealer or an experienced radio/TV technician for help.

Industry Canada

This device complies with 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.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Banner Engineering:

 SAB-497AB1DS6-Q5E
 SAB-497AB1LP6-Q5E
 SAB-497RB1DS6-Q5E
 SAB-497RB1LP6-Q5E
 SAB-998AB1DXL13

 Q5E
 SAB-998RB1LP13-Q5E
 SAB-1143AP1LP3-Q5E
 SAB-484RB1LP10-Q5E
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