

PVA Series Part Sensing Light Screens

Take the guesswork out of sequential parts assembly.

With the new Parts Verification Array (PVA) from Banner to light their way, assemblers never need to guess “what’s next.” The PVA is a light screen sensor that is placed in front of your bins to signal the assembler which bins contain items to pick for a given operation, and in what order to pick them. Use of the PVA can increase quality percentages for assembly operations by reducing missed parts, or parts assembled in the wrong order. This can add up to significant production cost savings in your facility.

Simple, two-component light screen system eliminates the controller.

The uniquely simple PVA system consists of only an asynchronous emitter and receiver which can be easily interfaced to your existing process controller. This simpler yet more advanced system saves time, wiring costs and maintenance, when compared with more complex systems that require a sync wire or controller box. Diagnostic LEDs on each emitter and receiver indicate proper setup or system errors at a glance.

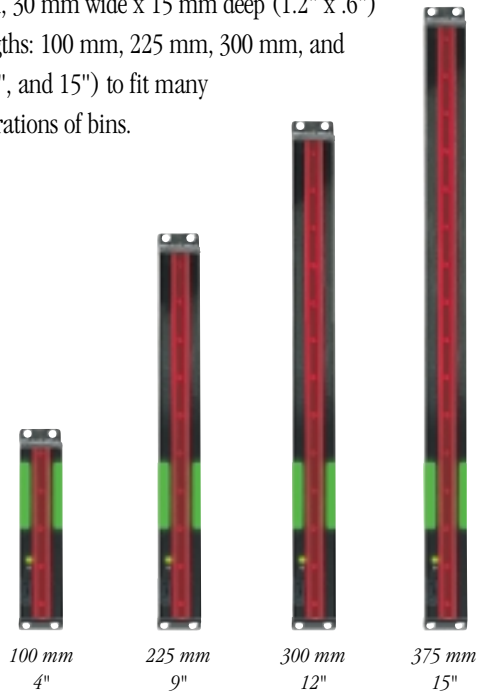
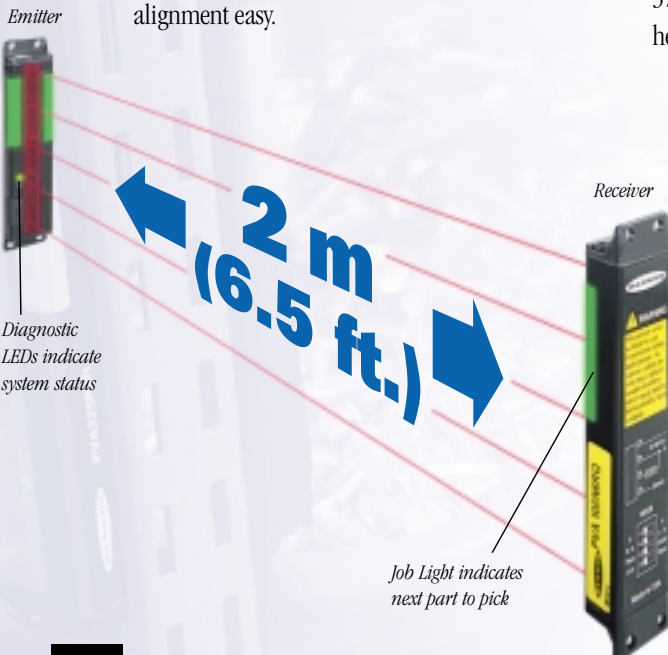
Long 2 m (6.5 ft) range.

The PVA system’s long operating range, up to 2 m (6.5’), assures consistent high performance, and compatibility with most existing bin widths and operations. And the wide beam spacing makes alignment easy.



Choose from four lengths to fit your bins.

There is no need to replace your existing bins to accommodate the PVA. This compact system, 30 mm wide x 15 mm deep (1.2" x .6") is available in 4 lengths: 100 mm, 225 mm, 300 mm, and 375 mm, (4", 9", 12", and 15") to fit many heights and configurations of bins.



PVA Series Model Selection



Parts Verification Array Models

Models	Description	Array Length & Response Time	Cable*	Supply Voltage	Job Light Input	Receiver Output	Minimum Resolution
PVA100N6 PVA100N6E PVA100N6R	Emitter/Receiver Pair Emitter Receiver	100 mm (4") Long, 5 Beams 12.5 ms	2 m (6.5') Unterminated	12 to 30V dc	0V dc	NPN (sinking)	35 mm
PVA100P6 PVA100P6E PVA100P6R	Emitter/Receiver Pair Emitter Receiver				+5 to 30V dc	PNP (sourcing)	
PVA100N6Q PVA100N6EQ PVA100N6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		0V dc	NPN (sinking)	
PVA100P6Q PVA100P6EQ PVA100P6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		+5 to 30V dc	PNP (sourcing)	
PVA225N6 PVA225N6E PVA225N6R	Emitter/Receiver Pair Emitter Receiver	225 mm (9") Long, 10 Beams 25 ms	2 m (6.5') Unterminated	12 to 30V dc	0V dc	NPN (sinking)	35 mm
PVA225P6 PVA225P6E PVA225P6R	Emitter/Receiver Pair Emitter Receiver				+5 to 30V dc	PNP (sourcing)	
PVA225N6Q PVA225N6EQ PVA225N6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		0V dc	NPN (sinking)	
PVA225P6Q PVA225P6EQ PVA225P6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		+5 to 30V dc	PNP (sourcing)	
PVA300N6 PVA300N6E PVA300N6R	Emitter/Receiver Pair Emitter Receiver	300 mm (12") Long, 13 Beams 32.5 ms	2 m (6.5') Unterminated	12 to 30V dc	0V dc	NPN (sinking)	35 mm
PVA300P6 PVA300P6E PVA300P6R	Emitter/Receiver Pair Emitter Receiver				+5 to 30V dc	PNP (sourcing)	
PVA300N6Q PVA300N6EQ PVA300N6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		0V dc	NPN (sinking)	
PVA300P6Q PVA300P6EQ PVA300P6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		+5 to 30V dc	PNP (sourcing)	
PVA375N6 PVA375N6E PVA375N6R	Emitter/Receiver Pair Emitter Receiver	375 mm (15") Long, 16Beams 40 ms	2 m (6.5') Unterminated	12 to 30V dc	0V dc	NPN (sinking)	35 mm
PVA375P6 PVA375P6E PVA375P6R	Emitter/Receiver Pair Emitter Receiver				+5 to 30V dc	PNP (sourcing)	
PVA375N6Q PVA375N6EQ PVA375N6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		0V dc	NPN (sinking)	
PVA375P6Q PVA375P6EQ PVA375P6RQ	Emitter/Receiver Pair Emitter Receiver		2 m (6.5') terminated with 4-pin Euro-style QD		+5 to 30V dc	PNP (sourcing)	

*Cable diameter is 3.3 mm (0.13") on all models.
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