

LISTEN.
THINK.
SOLVE.®

PRODUCT PROFILE

GuardShield PAC Safety Light Curtain

New GuardShield PAC Safety Light Curtain Protects Personnel and Equipment While Offering Enhanced Flexibility

When it comes to machine safety, Rockwell Automation knows that protection of personnel and equipment is your main concern. At the same time, flexibility and productivity are points that must also be considered as you design your safety system. Optimize all of these with the new Allen-Bradley Guardmaster GuardShield PAC safety light curtains. Offered in 3 beams with 400mm spacing or 2 beams with 500mm spacing, these GuardShield PAC's leverage the design and features of the GuardShield POC light curtain, The GuardShield PAC is a versatile, cost-effective and rugged solution that is ideally suited for a wide range of industrial safety applications.

The GuardShield PAC is a Type 4 opto-electronic device that protects personnel or equipment by detecting objects or persons in its sensing field. The GuardShield PAC can be used as an opto electronic fence but is most suited to protecting personnel from entry or exit ends of machine processes such as at the entry or exit area of palletizers.

A Flexible, Easy-to-Use Machine Guarding Solution

In addition to increased safety, configuration of the advanced features of the GuardShield are activated by setting dipswitches located in the product's end caps.

This simple and easy, yet controlled access to changing of the GuardShield PAC's operating modes reduces setup time as well as any downtime when swapping out a unit that may have been damaged in operation.

All operating modes of the GuardShield PAC can be easily configured with dipswitch settings, except for Fixed and Floating blanking, which are modes not allowed in PAC type safety devices.



The GuardShield PAC 2 beam and 3 beam safety light curtains meet all International requirements of an opto electronic Type 4 safety device and as such can be used anywhere in the world to protect personnel. Designed for whole body detection, these safety light curtains consist of a non matched Transmitter and Receiver which synchronize to each other optically. This feature allows that the Transmitter and receiver can be individually powered and not need connection to a common point or to each other, simplifying installation and setup.

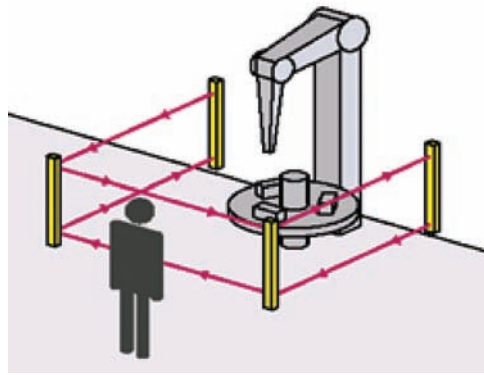
Applications

The combination of enhanced performance with simple installation and setup makes the GuardShield PAC the ideal solution for Perimeter guarding of robotic and automated assembly cells, palletizing machines.

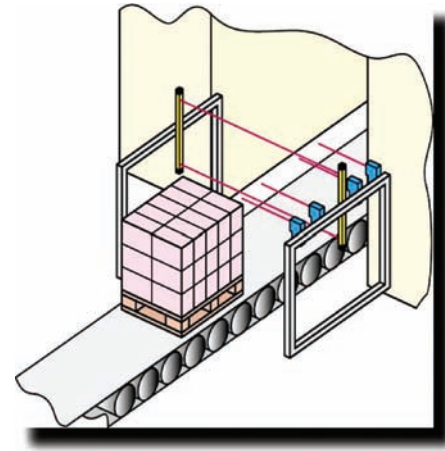
Whether an OEM machine builder, system integrator or end user of the GuardShield PAC, the ease of configuration of features and operating modes reduces set up time and saves on overall system cost. For example, the EDM (External Device Monitoring) feature allows for direct connection of the GuardShield PAC's safety outputs to the machine control which may eliminate the need for and the cost of a safety relay module.

Designed for ease of use and competitively priced, the GuardShield PAC safety light curtains are the smart choice for your whole body detection applications.

APPLICATION EXAMPLES



Electronic Fence



Access detection Sensors and Muting module allow material to pass through light curtain

PRODUCT SELECTION AND SPECIFICATIONS

A GuardShield PAC safety light curtain system is comprised of a pair of GuardShield PAC safety light curtains (Transmitter and Receiver) a 4 conductor transmitter cable and an 8 conductor receiver cable, both are offered in 2, 5, 10, 15, 20 and 30 meter lengths. Mounting brackets are supplied with each safety light curtain. In some cases, the connection of the GuardShield PAC to a safety relay module may not be necessary. The GuardShield PAC has an EDM connection which allows the GuardShield's OSSD outputs to be connected directly to the final switching device, usually a pair of contactors. The EDM circuit connection creates a feedback loop to the GuardShield creating a Category 3 circuit. If the EDM circuit does not "see" a change of state of the contactors within 300ms, the GuardShield's outputs stay OFF, preventing the machine from cycling until the circuit is fixed.

Catalog Number	Product Description
440L-P4A2500YD	GuardShield 2 beam PAC pair, 500mm beam spacing
440L-P4A3400YD	GuardShield 3 beam PAC pair, 400mm beam spacing
889D-F4AC-5	GuardShield transmitter cable, 5 meters
889D-F8AB-5	GuardShield receiver cable, 5 meters

Note: All GuardShield accessories are also available – Refer to catalog pages for ordering information

ACCESSORIES

The 440L-AGWS0960 weld shields are sold in pairs and are designed to protect the front window of the GuardShield. The laser alignment tool (440L-ALAT) and GuardShield mounting bracket (440L-AF6109) aid in the alignment for long range applications or when mirrors are used to provide multiple sided protection. The corner mirror (440L-AM1251050) allows the GuardShield's infrared light to be bent around corners to provide multiple sided protection around a machinery hazard.

Mounting of the GuardShield PAC in high shock or vibration applications may require the use of shock mount kits which attenuate the shock/vibration to acceptable levels. When the shock levels can not be attenuated to acceptable levels, the 440L-AMSTD is offered to provide a floor mount solution.

The GuardShield 2 and 3 beam PACs can be mounted into columns using mounting hardware kit 440L-AF6130.

Catalog Number	Product Description
440L-AGWS0960	GuardShield Weldshield kit for 3 Beam PAC
440L-AGWS0640	GuardShield Weldshield kit for 2 Beam PAC
440L-ALAT	Laser alignment tool
440L-AF6109	GuardShield laser alignment bracket
440L-AF6120	Shock mount kit, vertical mount
440L-AMSTD	Floor mount stand
440L-AM1251050	Corner mirror for 3 Beam PAC
440L-AM1250750	Corner mirror for 2 Beam PAC
440L-AGST640	GuardShield washdown enclosure kit 640mm
440L-AGST960	GuardShield washdown enclosure kit 960mm

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846