

GuardShield™ Area Access Control Safety Single Beam



“Whole body” detection for a variety of indoor and outdoor applications in a rugged IP67 cast aluminum housing

Features

- Heated Front Window
- IP67 rated housing
- 24Vdc
- Safety relay outputs
- Two operating ranges, 0.5 to 20 meters or 15 to 70 meters
- Single Transmitter for either short or long-range receiver
- SIL 3, IEC 61508. PL e, EN/ISO 13849, Category 4, EN/ISO 13849
- A global safeguarding solution that meets IEC61496. The AAC safety single beam carries a CE mark with third-party approval by TÜV Rheinland

Areas of Application

- Robot cells
- Machining centers
- Conveyor lines
- Processing machines
- Machine access points



The Allen-Bradley® Guardmaster® Area Access Control (AAC) Safety Single Beam is an economical, Type 4 single beam safety device in a robust IP67 housing. This single beam presence sensing device is designed for use around hazardous machinery or work cells, providing whole body detection in perimeter and access guarding applications. The IP67 environmental rating allows the AAC to be used in a number of operating environments where other safety opto-electronic devices would not reliably function.

The AAC has a heated front window to help prevent the formation of condensation due to temperature variations, which allows the AAC to function in a variety of operating environments.

The latest addition to the GuardShield line of safety opto-electronic is offered in both a short and a long range version. Sold as individual components, a single transmitter is paired with either a short range (0.5 to 20 meter) or a long range (15 to 70 meter) receiver.


GuardShield reliability, functionality, and added flexibility

This safety single beam device has an adjustable mounting bracket that can be attached to either the front or bottom of the housing for flexible mounting possibilities. Also offered is a mounting bracket for the laser alignment tool to facilitate alignment at installation or re-alignment if a corner mirror or AAC segment is knocked out of alignment during the course of daily use. There are also a number of corner mirrors offered to complement the AAC mounting configurations. Two 45-degree mirrors allow the transmitter and receiver to be mounted on the same side of an opening opposite both 45-degree mirrors. This configuration results in two beam detection spaced at some distance apart requiring power to only one side of an opening.



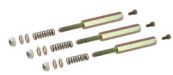



Like its other GuardShield counterparts, the AAC safety single beam has compliance to the latest safety performance requirements. It carries a CE mark and has been third-party tested by TÜV Rheinland, a Nationally Recognized Testing Laboratory (NRTL).

LISTEN.
THINK.
SOLVE.®

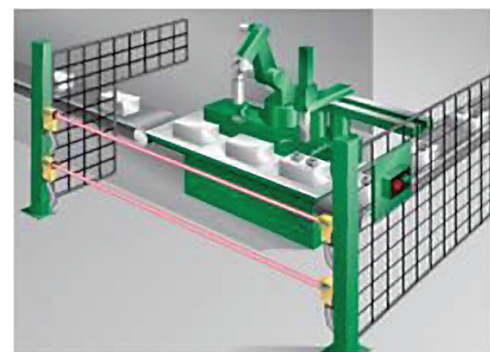
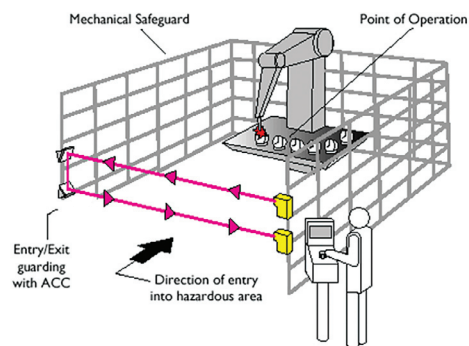
Ordering Information

| | Catalog Number | Product Description |
|---|----------------|---------------------------------------|
|  | 440L-T4F2070-Q | AAC Transmitter 24Vdc, 0 to 70 meters |
| | 440L-R4F0020-Q | AAC Receiver 24Vdc, 0.5 to 20 meters |
| | 440L-R4F1570-Q | AAC Receiver 24Vdc, 15 to 70 meters |

Accessories

| | | |
|---|-------------|---|
|  | 440L-AMBRK4 | AAC Mounting bracket |
|  | 440L-AMIRR1 | AAC Flat corner mirror |
|  | 440L-AMKIT | AAC Flat corner mirror mounting kit |
|  | 440L-AMBRK1 | AAC MIRR1 (440L-AMIRR1) mounting bracket (2 Required) |
|  | 440L-AMIRR2 | AAC corner mirror, 45-degree (2 Required) |
|  | 440L-ALAT | Laser Alignment Tool |
| | 440L-ALBRK1 | AAC mounting adapter for laser alignment tool |

Application Examples



Access protection on a machining center

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, 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