SCHMERSAL Tech Briefs: UAM compact safety laser scanner



Features



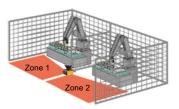
270 degree detection angle 5 meter protection zone 20 meter warning zone



Compact size 3.75" x 3.15" x 3.15"



SD card slot and USB port for computer programming



Set up independent protection zones to guard two adjacent machines with a single scanner

Overview

Safety Laser Scanners are presence sensing devices, also known as active opto-electronic protective devices responsive to diffuse reflection (AOPDDR). They are used to safely monitor stationary or mobile applications and are commonly used in robotic work cells or on autonomous mobile robots (AMR) and automated guided vehicles and carts (AGV, AGC). Safety Laser Scanners are one of the most effective presence sensing technologies as they can cover a wider area than compared to other solutions. The safety monitoring area generally comprises a wide warning zone and a narrower protection zone.

The UAM-05LP is a compact and light-weight safety scanner which can be mounted in confined spaces. It uses a 2D LiDAR system to monitor a 5 meter protection zone, with up to 20 meter warning area, and has a 270° field-of-view. It is equipped with an Ethernet interface, so distance data and intensity output values can be captured and sent to control systems. Special brackets are available for base or rear mounting, and a cover bracket prevents damage from materials falling on the scanner head.

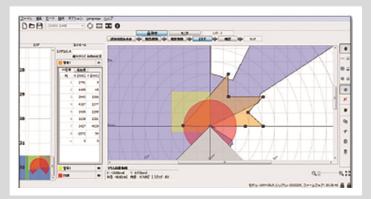
The UAM-05LP conforms to standards: IEC61469-1/3 Type 3; IEC61508 SIL2; ISO13849-1 PLd Category 3; UL508; UL1998; UL61496-1 Type 3; CSA C22.2 No. 14.

As one of the smallest scanners on the market, the UAM safety laser scanner provides a reliable solution for maximizing safety and preventing potentially unsafe situations in many industrial sectors.

Programming software

This scanner is easy to setup via software that allows you to create a monitoring area, drawn for your specific application with real-time measurement data. The complimentary software features a user-friendly interface with simple editing tools to configure complex zones.

Users can create up to maximum of 32 area patterns for safety and 64 patterns for non-safety. The software can also configure Master-Slave functions, and create two independent protection zones in Dual Protection Mode. Programs are uploaded via a Micro SD card slot or common USB connection.



Applications

- Collision detection Automated guided vehicles
- Presence detection Robot cells Palletizers
- Point of operation Presses
 Printing machines
 Injection molding
 CNC Machines
 Assembly Equipment



Available Literature

Scanner Brochure, 8 pages

Ordering Details

UAM-05LP-T3010

① Cable type

- blank 3 meter cable, flying leads
- C 300 mm cable, with connector

Accessories

Extension cables (T301)	
UAM-5C10	10 meter cable
UAM-5C20	20 meter cable

Extension cables (T301C)

2 meter cable
5 meter cable
10 meter cable
20 meter cable

Mounting brackets

UAM-BK03	Base mounting bracket
UAM-BK04	Rear mounting bracket
UAM-BK05	Cover bracket

Additional accessories

UAM-W002 Replacement lens UAM-ENET Ethernet cable, 3 meters

Compatible Safety ControllersSRB-E-201LCSRB-E-204STSRB-E-201STSRB-E-402STSRB-E-301STSRB-E-301MCSRB-E-212STSRB-E-322STSRB-301MCSRB-E-322ST

SRB-E-204PE (input expansion only)

Bold part numbers are regularly stocked

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