OEM AUTOMATIC

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HOKUYO

HOKUYO UAM-05 SAFETY LASER SCANNER

UAM-05LP-T301
Safety laser scanner, 5m, connecting cable 3m

- Protection zone 5m
- Warning zone 20m
- Versatile scanner for various applications
- Type 3, SIL2, PLd

PRODUCT DESCRIPTION

UAM-05 is the smallest safety laser scanner on the market packed with outstanding features. Extremely compact size, dimensions are only 80x80x95mm. Resolution can be selected between 30, 50, 70 and 150mm. Warning zone by default is 20 meters.

UAM is a perfect component for AGV applications as it features 32 area patterns which can be programmed via encoder input or static input. The scanner has a raw data output for transferring measured data from the surroundings.

Muting/override function enables the use in various muting-applications.

With the EDM function the scanner can monitor the input signal from the controlled machine so that the scanner can be used as a independent "stand-alone" unit without an external control unit.

The scanner can be utilized in horizontal and vertical mounting orientations.
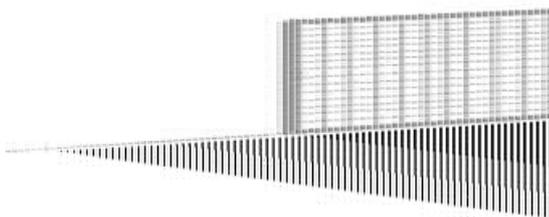
Scanning area

The scanning area consists of protection zone and warning zone with up to 32 programmable patterns. UAM also supports Dual Protection Mode, in which the scanner monitors two separate hazardous areas simultaneously.

In the picture illustrated below
1) Protection zone 1, warning zone 1 warning zone 2
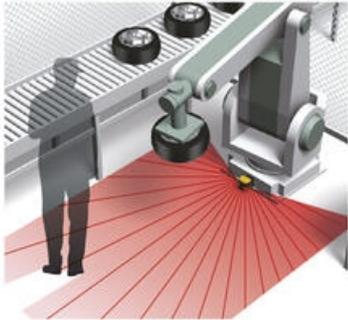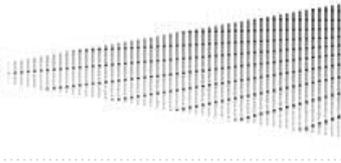2) Protection zone 1 and protection zone 2

The Dual Protection Mode (pictured on the right) does not support warning zones like in standard mode.
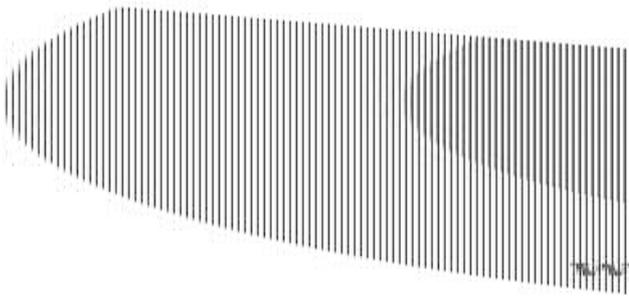
Protection zone 1

Protection z

Applications

Area control (fixed)	Area control (moving)	Access control

Scanning area

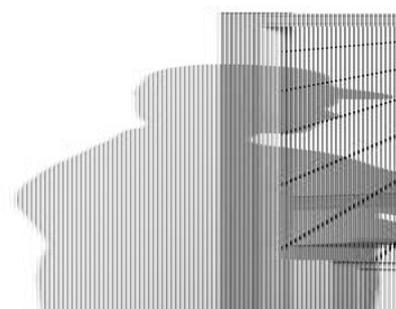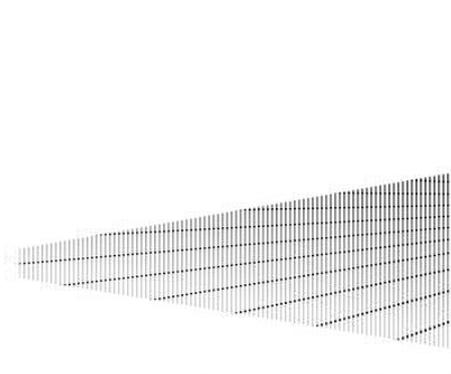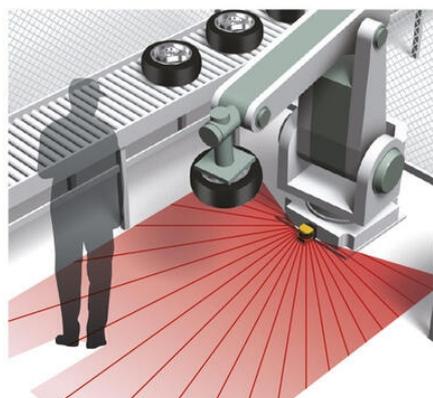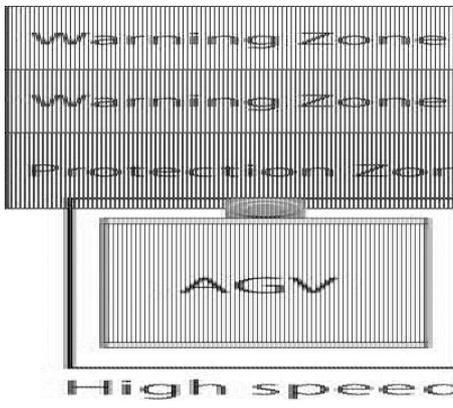5 meter protection zone and 20 meter warning zone with 270° detection range.

TECHNICAL DATA

Approvals	BG, CE, cULus, TÜV
Connection type	3m cable, USB2.0 (Micro USB type B), RS-485, Ethernet
Exit time max	510 ms
Exit time min	60 ms
Height	95 mm
In compliance with	EMC, LVD, MD
Input type	32 patterns (5 inputs x 2 channels), EDM/RESET/MUTING1/MUTING2/OVERRIDE (1 input x1 channel)
IP class	IP65

Laser class	Class 1
Length	80 mm
Material front glass	Polycarbonate
Material of body	Aluminium
Number of security fields	128
Optics	Laser class 1, 905 nm
PFHd	7,8x10-8 without master/slave; 1,6x10-7 with master/slaven
PL	ISO13849-1 : PL d Category3
Safe outputs	4xOSSD
Scanning angle	270 °
Security field max	5 m
Signal outputs	2xOSSD
SIL	IEC61508 : SIL2
Supply voltage	24 V DC
Temperature operational max	55 °C
Temperature operational min	-10 °C
Tolerance	+100 mm
Type	IEC61496-1/3 : Type3
Warning field max	20 m
Weight	0.8 kg
Width	80 mm
Voltage tolerance	±10 %

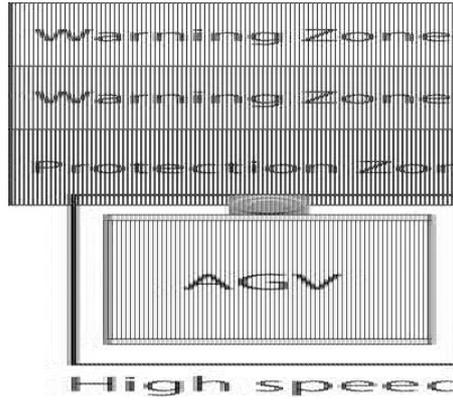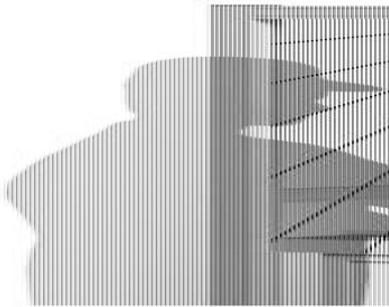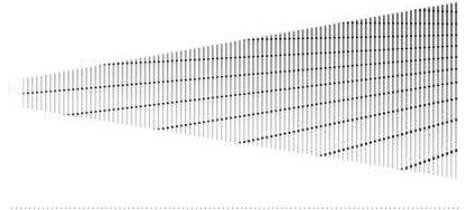Warning Zone

Warning Zone

Protection Zon

AGV

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Warning Zone 2 —
Warning Zone 1 —
Protection Zone —

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Insert SD card

Settings done

SD-Card

Reset switch

Control circuit

Control circuit

Control circ
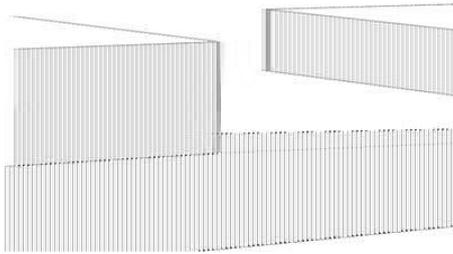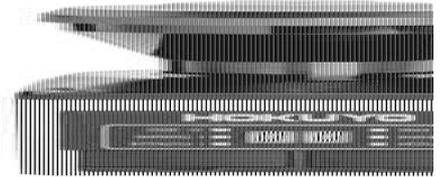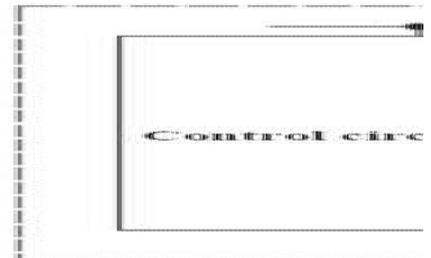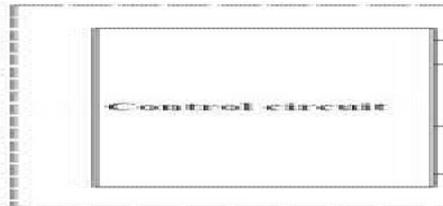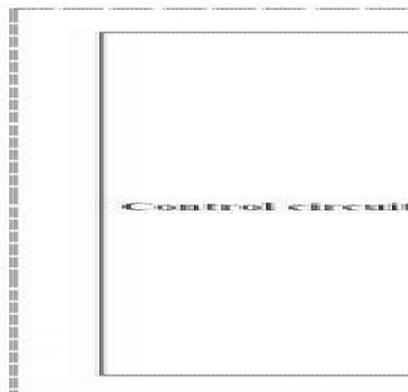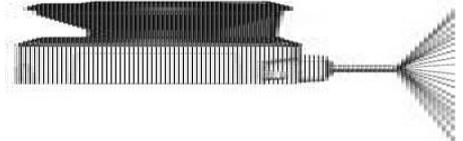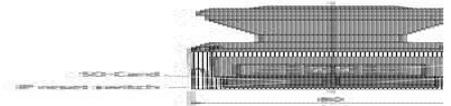
OSSD 1/2 indicator
Warning 1 indicator
Interlock 1 indicator

Warning Zone
Warning Zone
Protection Zor

Warning Zone 2 —
Warning Zone 1 —
Protection Zone —

AGV

High speed

HOKUYO

insert SD card
Settings data

SD-Card
IP insert switch

Control circuit

Control circuit

Control circuit

OSSD 1/2 indicator ....
Warning 1 indicator ....
Interlock 1 indicator ....