<< Safety product

Safety laser scanner-ASL







- Robust Painted aluminium housing
- Compact size design
- Safety Range 5.5 m
- Scanning range up to 0-275°
- Multiple set of programmable regions
- Dynamic masking function
- Excellent anti-dust interference function
- Adapted special software, intuitive user interface, easy to edit

Applicable industries: automotive and parts, logistics, 3C, robotics, printing/packaging and other industries

Technical parameters:

Туре	ASL10-3E ASL10-5E
Common data	
Types (EN61496-1)	3
PL (EN ISO 13849-1)	d
SIL (IEC 61508)	2
Test data	2
Detection performance	30/40/50/70/150 mm
Angular resolution	0.1°

Safe area working scope	3m, 5.5m
Maximum working range of alarm	area 40m
Set the maximum number of saf	
Set the maximum number of alarn	
Maximum detection Angle	275°
Range of tolerance	100 mm
Electrical data	
Power supply (VDD)	24 VDC ± 20%
Current of output	Max 0.25 A / Each OSSD
Output capacitive load	2.2 uF @ Max 24VDC
Input load current	6 15 mA
Input saturation voltage	> 15 V
Input capacitive load	22 uF
Mechanical and environmental da	
)+50 °C
Storage temperature	-20 70°C
Humidity	15 95 % (No condensation)
Protection degree	IP 65 (EN 60529)
Input/output configuration data	
Connector	M12 8 pin
Safety output(OSSDs)	1 x 2
Configurable input	0
Configurable output	0
Configurable input/output	3
High speed input(100kHz)	N/A
Configurable I/O total	5
Notes:	

Configurable parameters	
Response time	
Master machine Shortest: 62 ms; Long	gest: 482 ms
Any other slave machine	10 ms
Connector	M12 8 pin
Maximum number of region sets for any activation or	der(*1):
1 safety area	3
1 safety area+1 alarm area	2
1 safety area+2 alarm area	N/A
2 safety area	N/A
2 safety area+1 alarm area	N/A
2 safety area+2 alarm area	N/A
3 safety area	N/A
The largest region for a particular activation order	6
Number of sets (1 safety area) (*2):	
The region set inputs the switching time Shortest:30 ms	;Longest:5000 ms
Function	
Manual/automatic restart	yes
Reset (power restart)	yes
Overall shielding (unidirectional or bidirectional)	yes
Locally masked, the first pair of OSSD is dynamic	yes
Point of reference	yes
Forced invalidation	yes (*3)
Shield lamp	yes (*3)
Shield enable	yes (*3)
Cleaning window alarm	yes
General fault alarm	yes
Stop	yes
Advanced measurement data	yes (*4)
Maximum angular resolution of the measured data	0.1°
Applications	
Horizontal static	yes
Vertical static	yes
Moving (Simple AGV)	yes
Moving (Medium complexity level AGV)	N/A

(Graphical User Interface) for more details.

(*3) The forced invalidations input, shielded enable input, and shielded lamp output of SLS-SAx are mutually exclusive.

(*4) Programmable connectors are used on the front of the device.



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Technical parameters:

		Optional inp	out and output	
lament / Outrook		ASL10	Notes	
Input / Output	signal	8 pin		
	Reset	yes		
	Restart	yes		
	Reset/Restart	yes		
	Area switch 1	yes		
	Area switch 2	yes		
Multiple Input	Area switch 3	yes		
	Area switch 4	N/A		
	Area switch 5	N/A		
	Shield enable 1	yes	To activate masking, two masking inputs must be used	
	Shield 11	yes	- To activate masking, two masking inputs must be used	
	Shield 12	yes		
	Forced invalidation 11	yes		
	Forced invalidation 12	yes		
	Shield enable 2	N/A		
	Shield 21	N/A	To positive to manufact the manufact manufacture in the control of	
	Shield 22	N/A	To activate masking, two masking inputs must be used	
	Forced invalidation 21	N/A		
	Forced invalidation 22	N/A		
	Alarm 1	yes		
	Alarm 2	yes		
	Shield lamp 1	yes	It can be used with shielding function	
Multiple Output	Shield lamp 2	N/A		
	Forced invalidation state 1	yes		
	Forced invalidation state 2	N/A		
	Warning 1	yes	Cleaning window alarm	
	Warning 2	yes	General fault alarm	
	OSSD 11	yes		
	OSSD 12	yes		
OSSD	OSSD 21	N/A		
	OSSD 22	N/A		
	OSSD 31	N/A		
	OSSD 32	N/A		

Connection method:



	Connector	ASL10
Α	M12 4 pin (hole)	Ethernet
С	M12 8 pin (needle)	Power and digital I/O

	Connector (M12,8针)			
	Signal	Description	Color	Pin	
Dower or innly	Powersupply	24VDC	brown	2	
Power supply	GND_ISO	0 V	blue	7	
Input / Output	Multiple Input/Output	Selectable through a graphical user interface	white	1	
	Multiple Input/Output(*)	Selectable through a graphical user interface	green	3	
	Multiple Input/Output(*)	Selectable through a graphical user interface	yellow	4	
0.1.	OSSD11	Safety output	gray	5	
Safety output	OSSD12	Safety output	pink	6	
Other	PE	Functional grounding	red	8	

Notes: (*) only Multiple Input

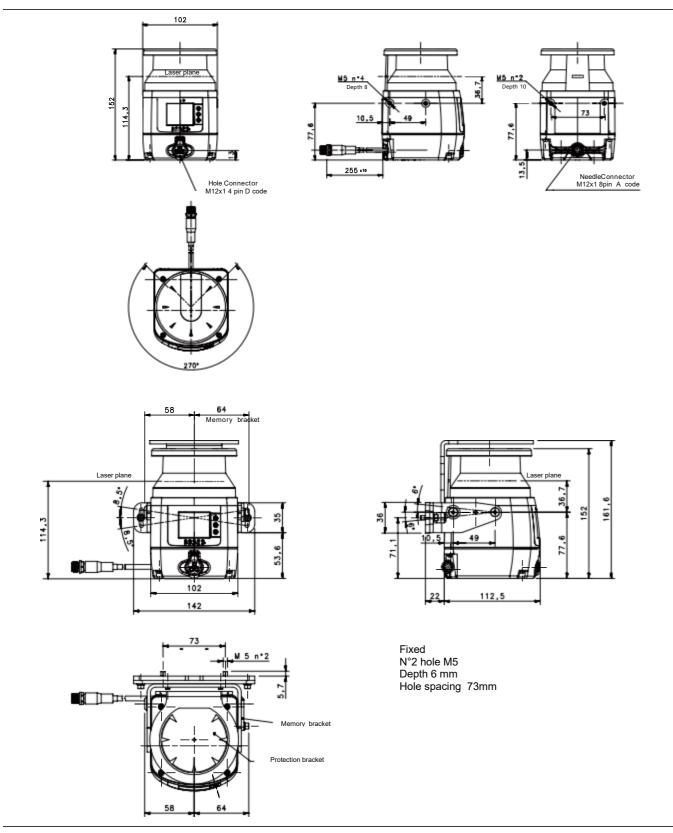
^(*) maximum number or region set switches that can be achieved when all inputs are used for region set switching. Using 8 input or encoder speed measurement region sets (the maximum number) can be reached.

(*2) Only 1 safety area, up to 3 zones in any activation order. There can be up to six when only some allowed activation orders are adopted. See the manual and GUI (*1) Maximum number of region set switches that can be achieved when all inputs are used for region set switching. Using 8 input or encoder speed measurements, 70

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Size diagram:





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Model Selection Table:

Туре	Description
ASL10-3E	Single machine type3m
ASL10-5E	Single machine type 5.5m

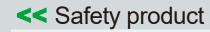
Accessories:

ASL10	
	Bracket
Complete bracket system	ASL10-BT-A
Slope adjustment bracket system	ASL10-BT-B
Top protection bracket	ASL10-BT-C
Unit of safety	
Unit of safety	SR22-31/24VUC/ESC
Maintenance parts	
Replaceable window	ASL10-W
Memory component M12 8/12 pin	ASL10-0812
Memory component M12 17/8 pin	ASL10-1708
Spray bottle liquid cleaner(1 lt)	ASL10-CLEANER
Cleaning cloth (22 cm x 22 cm), 100 pieces	ASL10-CLOTH



Accessories:

	Туре	One side	The other side	length
Main cable	CB-M12-8A-PUR-20	8 pin (needle)	Scattered line	2 m
	CB-M12-8A-PUR-30			3 m
	CB-M12-8A-PUR-50			5 m
	CB-M12-8A-PUR-100			10 m
	CB-M12-8A-PUR-150			15 m
	CB-M12-8A-PUR-250			25 m



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Notes:

As soon as human activity is detected in a safe or alarm area, the LASER SCANNER will display a color graphic to indicate the notification, so that the shutdown action can be taken or an alarm signal can be activated.

The 11 corner areas can show the direction of the detected person and indicate by different colors whether it is within the safe area (red) or the alarm area (yellow).

Display Icons	Name	Description	
Run	The "open "state	The device is operating normally (OSSD operating status). No human activity was detected in the safety and alarm are (Accept configuration)	
Alarm	An alarm that intrudes into an alarm area	The equipment is operating normally. The device has detected human activity in the alarm area. (Accept configuration)	
Stop	Intrude into the "close" state of a safe area	The device is operating normally (OSSD stop state). The device has detected human activity in the secure area. (Accept configuration)	
Reference	The "close" state of the reference point	The device detects the reference point moving. The display area in the direction of the moving reference point is blue.	

LED Number	Symbol	Definition	Color	Meaning	Output status
			Green	No object was detected	OSSD Close
1	1 €)	Safety area 1 Object detection (OSSD 11/12)	Red	Detecting an object	OSSD Open
	₩ つ		Green	No object was detected	OSSD Close
2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Safety area 2 Object detection (OSSD 21/22)	Red	Detecting an object	OSSD Open
3	M 3	Safety area 3 Object detection or Alarm area	Yellow	Detecting an object	OSSD Close Alarm 2 On/OFF (as in Settings)
3		2 Object detection	Close	No object was detected	OSSD Open The alarm 2 output depends on the alarm function configuration
4	Alarm area 1 Object			An object has been detected in alarm area 1	The alarm 1 output depends on the alarm function configuration
	<u>!</u>	detection	Yellow	No object was detected in alarm area 1	The alarm 1 output depends on the alarm function configuration
	- la		Close	No object was detected in the safe area Device waiting for manual restart (LED1 red)	OSSD Close
5 0	\mathcal{O}_{m}	In Interlock	Yellow	No object was detected in the safe area The device is enabled (LED1 green)	OSSD Open
	0		I GIIOW	The object is detected in the safe area The device is off (LED1 red)	OSSD Close

