DATALOGIC

More than 72 m² safely monitored, with 5.5 m over 275° High detection performances in compact size Advanced dust filtering

- Dimensions (w,d,h): 102 , 112.5, 152 mm
- I/O connection with standard 8 pins female M12 cable
- 1 Warning zone
- 70 mm detection capability
- 3 zone sets available (1safety + 1 warning zone each)
- Metal brackets allowing full orientation and fast replacement
- Auto/Manual restart available
- Colour graphic display for monitoring and diagnostics

APPLICATIONS

- Robot cells (pick and place, inspection, testing, welding, etc)
- Palletizers / depalletizers
- Open machinery, process lines
- Automated Guided Vehicles (AGV)
- Automated Guided Carts (AGC)
- Mobile Industrial Robots

INDUSTRIES

Automotive, Material handling, Secondary Packaging, Food, Wood, Ceramics





	FINGER	HAND	ARM	BODY
TYPE 3				•





TECHNICAL DATA

SLS-B5			
GENERAL DATA			
Type (EN61496-1)	3		
PL (EN ISO 13849-1)	d		
SIL (IEC 61508)	2		
ETECTION DATA			
Detection capability	70 mm		
Angular resolution	0.1°		
Safety zone operating range	0.05 5.5 m		
Warning zone max operating range	0.05 40 m		
Max. opening angle	275°		
Min. response time	62 ms		
ELECTRICAL DATA			
Power supply (Vdd)	24 Vdc ± 20%		
Safety Outputs (OSSDs)	2		
Output current	0.25 A max / each OSSD		
Capacitive load	2.2 uF @ 24Vdc max		
Standard Output	1 (configurable)*		
Inputs	max 3 (configurable)*		
Load current	6 15 mA		
Input saturation voltage	> 15 V		
Capacitive Load	22 uF		
MECHANICAL AND ENVIRONMENTAL DATA			
Operating temperature	0+50 °C		
Storage temperature	-20° 70°C		
Humidity	15 95 % (no condensation)		
Mechanical protection	IP 65 (EN 60529)		
CONFIGURABLE PARAMETERS			
Response time	Min: 62 ms; Max: 482		
Zone sets number	Max: 3		
Zone set switching time	Min: 30 ms; Max: 5000 ms		
FUNCTIONS			
Manual / automatic restart			
Dynamic switching between zone sets			

Dynamic switching between zone sets

Warning area intrusion detection

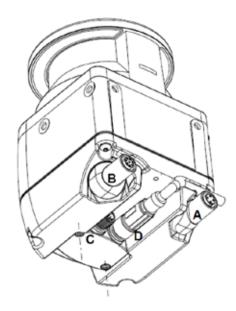
NOTES

(*1) If the standard output is used, the inputs number is 2

\$DATALOGIC

CONNECTIONS

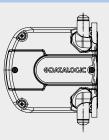
	Connector	Function
А	M12 4 pole rotatable side connector	Programming and monitoring of safety laser scanner with DL Sentinel
В	M12 8 pole rotatable side connector	Not used on SLS-B5
C	M12 12 poles connector on the memory group.	Not used on SLS-B5
D	M12 8 poles connector on the memory group.	Machine interface: power supply and inputs/outputs

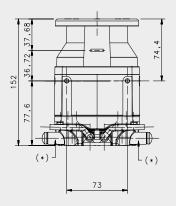


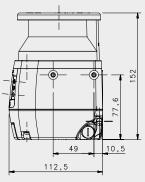
CONNECTOR (M12, 8-POLE)				
$ \begin{array}{c} 5 \bullet \bullet 4 \\ 7 \bullet \bullet 3 \\ 1 \bullet & 8 \bullet 2 \end{array} $	SIGNAL	DESCRIPTION	COLOR	PIN NUMBER
POWER	POWER SUPPLY	24Vdc	BROWN	2
POWER	GND_ISO	0 V	BLUE	7
INDUTC	MULTIIN	Selectable by GUI	GREEN	3
INPUTS	MULTI IN	Selectable by GUI	YELLOW	4
INPUT/OUTPUT	MULTI IN/OUT	Selectable by GUI	WHITE	1
	OSSD11	Safety Output	GRAY	5
SAFETY OUTPUTS	OSSD12	Safety Output	PINK	6
OTHER	F_EARTH	Functional Earth	RED	8

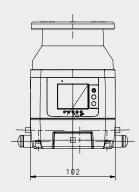
DATALOGIC

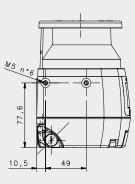
DIMENSIONS



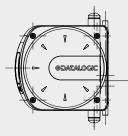




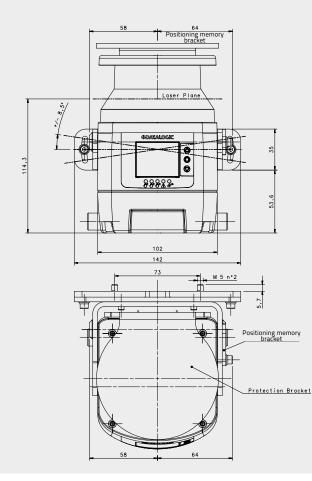


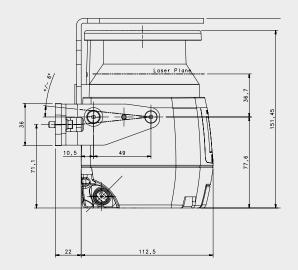


* rotating connectors can be positioned alternatively along x, y and z axis



SLS-B5 with brackets





SLS-B5

DATALOGIC

MODEL SELECTION AND ORDER INFORMATION

MODEL	PRODUCT DESCRIPTION	ORDER NO.
SLS-B5	LASER SENTINEL Standalone Base 5.5m 3 zone sets	958001100

CABLES

	MODEL	LENGTH	CODE
	CAB-ETH-M01 M12-IP67 ETHERNET CAB. (1M)	1 m	93A051346
ETHERNET CABLE	CAB-ETH-M03 M12-IP67 ETHERNET CAB. (3M)	3 m	93A051347
TO HOST	CAB-ETH-M05 M12-IP67 ETHERNET CAB. (5M)	5 m	93A051348
	CAB-ETH-M10 M12-IP67 ETHERNET CAB. (10M)	10 m	93A051391
NOTES			

Ethernet cable to host is used for programming and monitoring LASER SENTINEL with the DL Sentinel

	MODEL	LENGTH	CODE
	CS-A1-06-U-03	1 m	95ASE1220
	CS-A1-06-U-05	3 m	95ASE1230
MAIN CABLE	CS-A1-06-U-10	5 m	95ASE1240
	CS-A1-06-U-15	10 m	95ASE1250
	CS-A1-06-U-25	25 m	95ASE1260
NOTES			

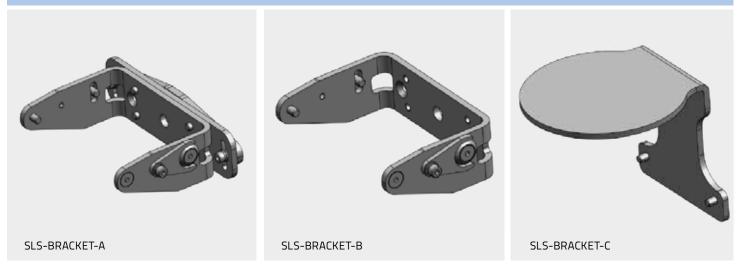
Main cable is needed for power supply and inputs/outputs

ACCESSORIES

	SLS-B5	ORDER NUMBER
	BRACKETS	
Complete bracket system	SLS-BRACKET-A	95ASE2920
Pitch regulation bracket system	SLS-BRACKET-B	95ASE2930
Head protective bracket	SLS-BRACKET-C	95ASE2940
	SAFETY UNITS	
Safety Unit	SE-SR2	95ACC6170
	OTHERS	
Liquid cleaner in spray bottle (1 lt)	SLS-CLEANER	95ASE2990
Cleaning cloth (22 cm x 22 cm), 100 pcs.	SLS-CLOTH	95ASE3000

DATALOGIC

BRACKETS



The colour graphical display of LASER SENTINEL shows if any person has been detected in the safety or warning areas, causing by consequnce the stopping of the machine or the warning signal to activate.

The presence of 11 angular sectors allow to show the direction in which the person has been detected, and its colour indicate if it has been inside the safety (red) or the warning zone (yellow).

DISPLAYED ICON NAME		DESCRIPTION
GO	Device On	The device is correctly functioning (OSSDs GO Condition). No presence detected in the Safety and Warning Area. (Configuration accepted)
WARNING	Warning Zone Signal	The device is correctly functioning. The device has detected a presence in the Warning Area (Configuration accepted)
STOP	Safety Zone Signal	The device is correctly functioning (OSSDs STOP Condition). The device has detected a presence in the Safety Zone. (Configuration accepted)



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