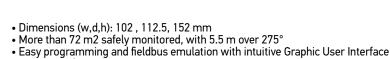
Laser Sentinel **Enhanced**

SAFETY LASER SCANNER FOR PROFINET/PROFIsafe

Safety laser scanner based on Time of Flight measurement with command integration in Profinet/Profisafe fieldbus.

- 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



- Dynamic reference pointsAdvanced dust filtering Local I/O connection with standard M12 cables
- Up to 8 simultaenous safety zones
- Up to 7 Simultaneous warning zones
- Up to 70 zone sets
- 30/40/50/70/150 mm selectable detection capability
- Metal brackets allowing full orientation and fast replacement
- · Advanced measurement data protocol
- · Colour graphic display for monitoring and diagnostics



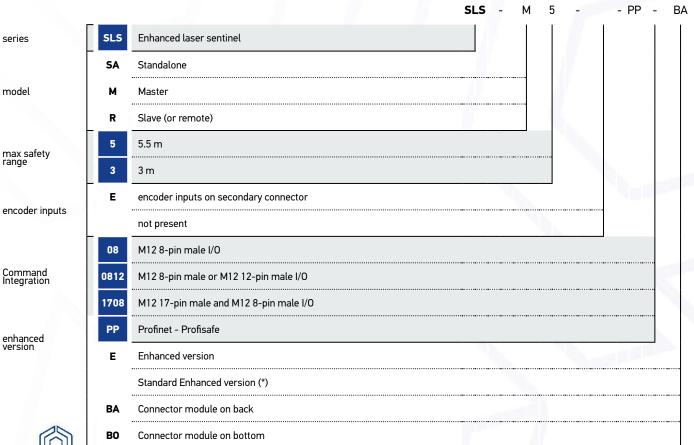














SLS for Profinet/ Profisafe SAFETY LASER SCANNERS

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	SLS-M5-PP-BA	SLS-M5-PP-B0						
FEATURES AND PERFORMANCES								
detection capability	30/40/50/70/150	0 mm selectable						
Angular resolution	0,1°							
Safety range (min)	0,05 m							
Safety range (max) [detection capability]	2,5m[30mm]; 3m[40mm]; 4r	2,5m[30mm]; 3m[40mm]; 4m[50mm]; 5,5m[70,150mm]						
warning range (max)	40	m						
Detectable target remission	1,8% "	1000%"						
N°of simultaneous safety zone (max)	8	3						
N° of simultaneous warning zone (max)	7							
N° of zone set (max)	70	0						
N°of reference point set (max)	7(0						
N° of points of each reference point set (max)	11	5						
Response time max	94 ms - 1750 n 105 ms - 2065 ms							
Tolerance Zone	100	· ·						
Supplement for retroreflectors on scan plane in front of a safety zone	200	mm						
ELECTRICAL DATA								
Power Supply	16.8 Vdc	. 28.8 Vdc						
Maximum residual ripple	+/-	5%						
Power consumption	8.5 W @24 V, no di	gital I/O connected						
Protection class POWER CONNECTOR'S CONFIGURABLE INPUT/OUTPUT	III (EN/IE	C 61140)						
N° of configurable input (max)	5	5						
N° of configurable output (max)	4	4						
POWER CONNECTOR'S CONFIGURABLE INPUT/OUTPUT - ELECTRICAL DATA								
Input voltage (HIGH)	> 8	3 V						
Input voltage (Low)	< 5.	5 V						
Input current (HIGH)	2 mA @	24 Vdc						
Output voltage for ON status (HIGH)	≥Vdc-1.5V	@400mA						
Output voltage for ON status (Low)	≤ 0.	.4V						
Output current for ON status (HIGH)	max. 3	00 mA						
Output type	Push	-Pull						
COMMUNICATION	:							
Network Interfaces	10/100 Mbit/s	Ethernet (3X)						
PROFINET specification	V2							
PROFIsafe profile	V2.6.1 & 2.4 (w/o iPar)							
GSDML specification	V2.	43						
CONNECTORS	:							
Power and I/0	M12 male type A c							
Ethernet to GUI / Data transmission	M12 male type D c							
Profinet / Profisafe Connectors module positioning on device	M12 male type D con back	nector - 4 poles (2X) bottom						
HMI/UI	: Dack	DOLLOTTI						
Configuration and monitoring interfaces	DL Senti	nel 4.0.x						
LED indicators	safe/normal oper							

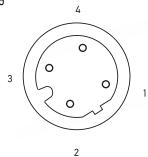
TECHNICAL SPECIFICATIONS

MECHANICAL DATA Dimensions Material Mosaing material Optic window material Deversion Temperature Endicasure Bailing Operating Temperature Storage formperature Storage formperature Vibration Resistance OPTICAL DATA Wavelength Pulse duration OPTICAL DATA Wavelength Pulse duration Divergence of collimated beam SAFETY PARAMETERS Type SLL SLE		SIS ME DD DA	SIS ME DD DO
Dimensions		SLS-M5-PP-BA	SLS-M5-PP-B0
Material			150
Housing material Pented aluminimum / PC Optic window material PMAA Comections ENVIRONMENTAL DATA Humidity 95% max non-condensing Enclosure frating Destains Temperature Storage temperature ax Vibration Resistance OPTICAL DATA WaveIngth Pubs duration Average output power Lase casis-Laser-Mass Divergence of collimated beem Laser casis-Laser-Mass Laser Casis-Laser-Mass SEE			
Connections M12 ENVIRONMENTAL DATA Humidity 95% max non-condensing Enclosure Rating Operating Temperature 1-10			
ENVIRONMENTAL DATA Hundility 975% max non-condensing Enclosure Rating 1965 Operating Temperature 4 -10 50 °C Storage temperature max -20 70 °C Whortion Resistance 1046-44 (4.3.314.3314.3314.3315.54.41) Class SMI (Ground vehicle Installation) 'According to IEC 61496-1 (3.314.3316.33.25.64.1) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.41) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.42) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.42) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.42) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.42) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.42) Class SMI (Ground vehicle Installation) 'According to IEC 61498-1 (4.3.314.33.35.54.42) Class Maximum SIL Avariage output power Barry Avariate Barry SMI (Ground vehicle Installation) 'According to IEC 61498-1 (2.3.314.33.315.64.42) Class Ministry Park Maximum SIL SAFETY PARAMETERS Type 3.0(IN A1496-1) SIL (IEC 61508) Maximum SIL SIL (IEC 61508) AVAIS SIL (IEC 61508) AVAIS SIL (IEC 61508) AVAIS SIL (IEC 61508-1) AVAIS SIL (IEC 6	•		
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Humidity		M12	2
Enclosure Rating		OF6/	
Operating Temperature Storage temperature max Vibration Resistance Wibration Resistance OPTICAL DATA Wowledength Pulse duration Average output power Laser class/fl.sseriklass Divergence of collimated beam SAFETY PARAMETERS Type SIL SIL GEL SIL GEL SIL GEL SIL GEL SIL GEL SIL SIL SIL SIL SIL SIL SIL S	,		
Storage semperature max			
**According to IEC 41494-1 (4.3.3.1.4.3.3.25.4.1) Cases MM (Forund whichele Installation)* Shock Resistance OPTICAL DATA Wavelength Pulse duration Pulse duration Average output power Laser class/flaser/dass Divergence of collimated beam SAFETY PARAMETERS Type SIL SIL SIL SIL (EEC 61506) Maximum SIL Cat. SIL (EEC 61506) Maximum SIL Cat. SIL (EEC 61506) Maximum SIL Cat. SIL (EEC 61506) Maximum SIL SIL (EEC 61506) Maximum SIL (EEC 61506) Maximum SIL SIL (EEC 61506) Maximum SIL (EEC 61506) Maximum SIL (EEC 61506			
Shock Resistance	Storage temperature max		
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Pulse duration Pulse duration Average output power Laser class/Laserklass CLASS 1 (EN 60825-1:2014) Divergence of collimated beam 0.12 * SAFETY PARAMETERS Type 3 (EN 61496-1) SIL SIL 2 (EC 61508) Maximum SIL Cat. 3 (EN 103869-1) PFHd 2 (24 × 10-8) MTFd 6 (1 years TM (Mission Time) MAN CERTIFICATIONS Safety of Machinery - electros sensitive protective equipment - equipment - equipment - solvey for laser products - Equipment classifica- tion and requirements - lindustrial communication networks - Functional safety of machinery - slectry related parts of control systems Functional safety of lectrical/electronic/pro- grammable electronic collectly related systems Functional safety of lectrical/electronic/pro- grammable electronic collectly related systems FUNCTIONS Generic Alarm Available Muting Override Dust filtering Available Partial Muting Available Partial Muting Available Partial Muting Available Partial Muting Available Pre-alarm (warning) Advanced data transfer protocol Reset (restart cycle) Available Advanced data transfer protocol Reset (restart cycle) Available Advanced data transfer protocol Reset (restart cycle) Available Dynamic Reference Points Available	Shock Resistance		
Pulse duration 3 ns Average output power 8 nm Laser class/Laserklass CLASS 1 (EN 60825-1:2014) Divergence of collimated beam 0.12 ** SAFETY PARAMETERS Type 3 (EN 41496-1) SIL SIL (EC 61508) Maximum SIL SIL 2 (EC 6261) Cat. 3 (EN 150 13849-1) PFHd 2:24 x 10-8 MTTTd 61 years TM (Mission Time) 20 years (EN 150 13849-1) Safety of Machinery - electro sensitive protective equipment — suffey of laser products — Equipment classification and requirements — lindustrial communication networks – Functional safety of lectronicative protective grammable electronic safety related systems FUNCTIONS Generic Alarm Available Muting Available Muting Available Muting Available Muting Available Dust filtering Available Pre-alarm (warning) Available Pre-alarm (warning) Available Pre-alarm (warning) Available Reset (restart cyte) Available	OPTICAL DATA		
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Laser classs/Laserklass Divergence of collimated beam SAFETY PARAMETERS Type SIL Type SIL SIL 2 (IEC 61508) Maximum SIL Cat. 3 (EN 150 13849-1) PFHd 2.22 x 10-8 MITFd AIN (Mission Time) MITFd TM (Mission Time) MAIN CERTIFICATIONS Safety of Machinery -electro sensitive protective equipment - sequence to a significant of the mission	Pulse duration	3 ns	S
Divergence of collimated beam SAFETY PARAMETERS Type 3 (EN 61496-1) SIL SIL (SIL 2 (EC 61508) Maximum SIL Cat. 3 (EN ISO 13849-1) PFHd 2-2-4 x 10-8 MTTFd 6 1 years TM (Mission Time) 20 years (EN ISO 13849-1) MAIN CERTIFICATIONS Safety of Machinery - electro sensitive protective equipment - safety of Isser products - Equipment classification and requirements - Industrial communication networks - Functional safety feliduses Safety of machinery, safety-related parts of control systems Functional safety of electrical/electronic/programmable electronic safety related systems Functional safety of electrical/electronic/programmable electronic safety related systems Generic Alarm Available Clean Window Alarm Available Muting Available Muting Available Override Available Dust filtering Available EDM (External Device Monitoring) Partial Muting Available Pre-alarm (warning) Advanced data transfer protocol Reset (restart cycle) Available Advanced data transfer protocol Reset (restart cycle) Available	Average output power	8 m	W
Type SIL SIL SIL SIL SIL2 (ERC 61508) Maximum SIL Cat. 3 (EN ISO 13849-1) PFHd Cat. AITHER Milesion Time) MAIN CERTIFICATIONS Safety of Machinery - electro sensitive protective equipment - equipment - safety of laser products - Equipment classifica- tion and requirements - Industrial communication networks - Functional safety for machinery. Safety-related parts of control systems Functional safety of electrical/electronic/pro- grammable electronic safety related systems Functional safety of electrical/electronic/pro- grammable electronic safety related systems Functional safety of electrical/electronic/pro- grammable electronic safety related systems Functional safety of electrical/electronic/pro- grammable electronic safety related systems Functional safety fellows Safety of machinery safety electronic safety related systems Functional safety fellows EC 61946-1/3 EC 619	Laser class/Laserklass	CLASS 1 (EN 60	0825-1:2014)
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Safety of machinery. Safety-related parts of control systems Functional safety of electrical/electronic/programmable electronic safety related systems FUNCTIONS Generic Alarm Available Clean Window Alarm Muting enable Muting Override Dust filtering EDM (External Device Monitoring) Partial Muting Available Pre-alarm (warning) Advailable Available Available Preset (restart cycle) Manual / automatic restart Shut off (mute) Dynamic Reference Points EN ISO 13849-1 EN ISO 1384-1 EN ISO 13849-1 EN ISO 1384-1 EN	Safety of laser products – Equipment classification and requirements	IEC 60825-	-1:2014
Functional safety of electrical/electronic/programmable electronic safety related systems FUNCTIONS Generic Alarm Available Clean Window Alarm Available Muting enable Not Available Override Available Dust filtering Available EDM (External Device Monitoring) Not Available Pertial Muting Available Pre-alarm (warning) Available Advailable Reset (restart cycle) Available Manual / automatic restart Available Shut off (mute) Dynamic Reference Points Available Reset (restarce Points) Available Available Available Available Available Available	safety fieldbuses	IEC 61784-3	3-18 2010
FUNCTIONS Generic Alarm Available Clean Window Alarm Available Muting enable Not Available Override Available Dust filtering Available EDM (External Device Monitoring) Not Available Partial Muting Available Pre-alarm (warning) Available Advanced data transfer protocol Reset (restart cycle) Available Manual / automatic restart Available Shut off (mute) Dynamic Reference Points Available Available Available Available Available	control systems		
Generic Alarm Clean Window Alarm Available Muting enable Muting Available Override Dust filtering Available EDM (External Device Monitoring) Partial Muting Available Pre-alarm (warning) Advanced data transfer protocol Reset (restart cycle) Manual / automatic restart Shut off (mute) Dynamic Reference Points Available	grammable electronic safety related systems	IEC 61508-	1-2-3-4
Clean Window Alarm Muting enable Muting Override Override Dust filtering EDM (External Device Monitoring) Partial Muting Pre-alarm (warning) Advanced data transfer protocol Reset (restart cycle) Manual / automatic restart Shut off (mute) Dynamic Reference Points Available Not Available Available Available Available Available Available Available Available		Availa	hla
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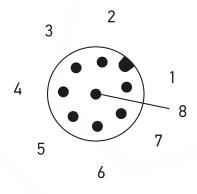
AVAILABLE MODELS

Description	Model
Laser Sentinel Profisafe	SLS-M5-PP-BA (958000012)
Laser Sentinel Profisafe	SLS-M5-PP-B0 (958000013)

PLUGS



N.o	Definition
1	Transmit data +
2	Receive data +
3	Transmit data -
4	Receive data -



N.o	Definition
2	24Vdc
7	0 V
3	Selectable by GUI
4	Selectable by GUI
1	Selectable by GUI
5	Selectable by GUI
6	Selectable by GUI
8	Functional Earth

Category	Туре	Color
Power	POWER SUPPLY	BROWN
	GND_ISO	BLUE
Input/Output	INPUT	GREEN
	MULTI IN/OUT	YELLOW
	MULTI IN/OUT	WHITE
	MULTI IN/OUT	GRAY
	MULTI IN/OUT	PINK
OTHER	F EARTH	RED

ACCESSORIES AND CABLES

		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
***************************************	FIELD REPLACEMENT ACCESSORIES	
Replacement window	SLS-WINDOW	95ASE2971
Fieldbus memory group	SLS-MG-FB	95ASE0105
<u> </u>	MAINTENANCE ACCESSORIES	
Liquid cleaner in spray bottle (1 lt)	SLS-CLEANER	95ASE2990
Cleaning cloth (22 cm x 22 cm), 100 pcs.	SLS-CLOTH	95ASE3000







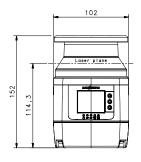


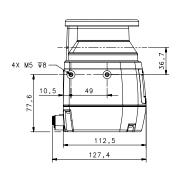
FIELDBUS MEMORY GROUP

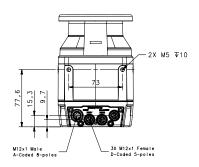
	MODEL	1 st end	2 nd end	LENGHT	CODE
·	CS-A1-06-U-03			3 m	95ASE1220
	CS-A1-06-U-05			5 m	95ASE1230
POWER AND I/O CONNECTION	CS-A1-06-U-10	8 pin female	free wires	10 m	95ASE1240
	CS-A1-06-U-15			15 m	95ASE1250
	CS-A1-06-U-25			25 m	95ASE1220 95ASE1230 95ASE1240
ETHERNET	CAB-ETH-M01 M12-IP67 ETHERNET CAB. (1M)			1 m	93A051346
	CAB-ETH-M03 M12-IP67 ETHERNET CAB. (3M)	/ = i= == -l=	RJ45	3 m	93A051347
TO HOST CABLES	CAB-ETH-M05 M12-IP67 ETHERNET CAB. (5M)	4 pin male	KJ45	5 m	93A051348
	CAB-ETH-M10 M12-IP67 ETHERNET CAB. (10M)			10 m	93A051391

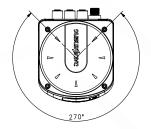
MECHANICAL DRAWINGS

SLS-M5-PP-BA



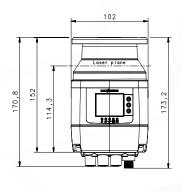


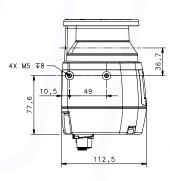


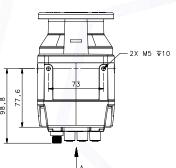


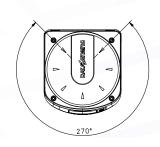
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SLS-M5-PP-B0

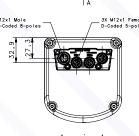








(mm)





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