

Ultra-compact laser scanners 466

Mid-range laser scanners 467

High specification laser scanners 468



S300 Mini – Ultra-compact laser scanner



The S300 mini is the most compact Sick laser scanner available with dimensions of just h116 x w102 x d105mm. This compact size increases the number of applications that laser scanners can be used in.

Features

- Ultra compact design
- Single field monitoring
- Up to 3m protective field range
- 270° scan angle
- Triple field sets (1 protective field and 2 warning fields)
- Selectable resolution
- Vertical and horizontal safeguarding
- System plug included

Sick CDS programming software

is available to download free from www.mysick.com

You will also need to order . . .

1 Mounting brackets

You may also need . . .

2 Programming cable

3 Connecting cable

4 RLY3-OSSD1 safety relay

See page 489 for full specification

EN ISO 13849-1 Category	Cat 3
EN ISO 13849-1 Performance Level	PLD
EN 62061 SIL Claim	SIL CL 2
EN 16496-1 Type	3

Technical specification

Protective field range	Up to 3m
Field range	8m
Scanning angle	270°
Response time	80mS
Object resolution	30/40/50/70mm
Outputs . . . 2 safety PNP outputs (OSSD),	250mA
Power supply	24V d.c.
Reset input	Integrated
EDM input	Integrated
Type of connection	System plug
Protection	IP65
Operating temperature . . . -10 to +50°C	
Dimensions . . . h116 x w102 x d105mm	

Protective Field Range	Order Code	List Price
2m range	S32B-2011BA	£2,172.78
3m range	S32B-3011BA	£2,437.30

Accessories

Description	Order Code	List Price
2 2m programming cable – serial	6021195	£21.41
2 2m programming cable – USB	6034574	£50.25
3 2.5m connecting cable, M12 socket 8-pin, straight	2076540	£16.24
3 5m connecting cable, M12 socket 8-pin, straight	2076541	£19.53
3 10m connecting cable, M12 socket 8-pin, straight	2076543	£27.08
4 OSSD1 safety relay	RLY3-OSSD1	£121.55

Mounting brackets

Kit 1a

Mounting bracket for rear mounting on wall or machine. Not adjustable.



Kit 2

Mounting bracket, adjustable longitudinal and lateral axes.



NOTE: Can only be used in conjunction with kits 1a or 1b.

Kit 1b

Mounting bracket for rear mounting on wall or machine with protection of optics hood.



Kit 3

Mounting plate, adjustable longitudinal axis.



NOTE: Can only be used in conjunction with kit 2.

1 Mounting bracket kits

Description	Order Code	List Price
Kit 1a	2034324	£31.42
Kit 1b	2034325	£40.02
Kit 2 (also requires kits 1a or 1b)	2039302	£29.07
Kit 3 (also requires kit 2)	2039303	£22.10

S300 – Mid-range laser scanner



Three versions of the Sick S300 are available.

The standard version provides one protective field and one warning field.

The advanced version has the added flexibility of up to two protective fields, up to two warning fields and two digital inputs for protection field switching.

The professional version increases this to up to four protective fields, up to four warning fields and four digital inputs for protection field switching.

Features

- 2m protective field range
- 1, 4 or 8 monitoring fields
- 270° scan angle
- Selectable resolution
- Vertical and horizontal safeguarding

Sick CDS programming software is available to download free from www.mysick.com

You will also need to order . . .

1 System plug and cable

2 Mounting brackets

You may also need . . .

3 Programming cable

4 Connecting cable

5 RLY3-OSSD1 safety relay

See page 489 for full specification

EN ISO 13849-1 Category	Cat 3
EN ISO 13849-1 Performance Level	PLd
EN 62061 SIL Claim	SIL CL 2
EN 16496-1 Type	3

Technical specification

Enclosure rating	IP65
Protective field range	2m
Field range	0.8m
Scanning angle	270°
Response time	80mS
Object resolution	30/40/50/70mm
Outputs	2 safety PNP outputs (OSSD), 250mA
Power supply	24V d.c.
Reset input	Integrated
EDM input	Integrated
Type of connection	System plug
Protection	IP65
Operating temperature	-10 to +50°C
Dimensions	h152 x w102 x d105mm

Description	Protective Fields	Warning Fields	Order Code	List Price
Standard	1	1	S30B-2011BA	£2,549.75
Advanced	2	2	S30B-2011CA	£2,728.41
Professional	4	4	S30B-2011DA	£3,118.23

Accessories

Description	Order Code	List Price
1 System plug with 5m cable	2032859	£108.80
1 System plug, no cable	2032807	£96.78
3 2m programming cable – serial	6021195	£21.41
4 2m programming cable – USB	6034574	£50.25
4 2.5m connecting cable, M12 socket 8-pin, straight	2076540	£16.24
4 5m connecting cable, M12 socket 8-pin, straight	2076541	£19.53
4 10m connecting cable, M12 socket 8-pin, straight	2076543	£27.08
5 OSSD1 safety relay	RLY3-OSSD1	£121.55

Mounting brackets

Kit 1a

Mounting bracket for rear mounting on wall or machine. Not adjustable.



Kit 1b

Mounting bracket for rear mounting on wall or machine with protection of optics hood.



Kit 2

Mounting bracket, adjustable longitudinal and lateral axes.



NOTE: Can only be used in conjunction with kits 1a or 1b.

Kit 3

Mounting plate, adjustable longitudinal axis.



NOTE: Can only be used in conjunction with kit 2.

2 Mounting bracket kits

Description	Order Code	List Price
Kit 1a	2034324	£31.42
Kit 1b	2034325	£40.02
Kit 2 (also requires kits 1a or 1b)	2039302	£29.07
Kit 3 (also requires kit 2)	2039303	£22.10

S3000 series – High specification laser scanner

Standard version



The S3000 Standard version laser scanner is a great value unit offering one protective field and two warning fields. Please note it does not include any digital inputs for protection field switching.

The S3000 can be used for horizontal and vertical safeguarding of hazardous points of operation, dangerous areas, and access in compliance with Type 3 of IEC/EN 61496-3.

Improved detection capabilities also make the S3000 suitable for hand, limb and body detection.

Ideal applications include:

- Production lines
- Machining centres
- Entry/exit stations
- Robot cells
- Free moving transport vehicles
- Narrow aisle vehicles

Features

- Up to 7m protective field range
- Selectable resolution for hand, leg or body detection
- Ideal for horizontal and vertical use
- Configuration memory is integrated in the system plug
- Variety of field sets ensures safety and productivity when protecting vehicles or moving machine parts

Sick CDS programming software
is available to download free from
www.mysick.com

You will also need to order . . .

1 System plug and cable

2 Mounting brackets

You may also need . . .

3 Programming cable

4 RLY3-OSSD1 safety relay
See page 489 for full specification

EN ISO 13849-1 Category	Cat 3
EN ISO 13849-1 Performance Level	PLd
EN 62061 SIL Claim	SIL CL 2
EN 16496-1 Type	3

Technical specification

Protective field range Up to 7m
 Field range 49m
 Scanning angle 190°
 Response time 60mS
 Object resolution 30/40/50/70/150mm
 Outputs 2 PNP semiconductors,
 short circuit protected,
 cross circuit monitored
 500mA max
 Power supply 24V d.c.
 Power consumption 1.4w
 (without output load)
 Reset input Integrated
 EDM input Integrated
 Type of connection System plug
 Protection IP65
 Operating temperature -10 to +50°C
 Dimensions h185 x w155 x d160mm

Protective Field Range	Order Code	List Price
4m range	S30A-4011BA	£3,637.15
5.5m range	S30A-6011BA	£3,970.55
7m range	S30A-7011BA	£4,425.49

Accessories

Description	Order Code	List Price
1 Pre-assembled system plug with 5m cable	2049222	£159.09
1 Pre-assembled system plug with 10m cable	2027171	£158.38
1 Pre-assembled system plug with 20m cable	2027814	£182.37
2 3m programming cable - serial	6021195	£21.41
2 2m programming cable - USB	6034574	£50.25
4 OSSD1 safety relay	RLY3-OSSD1	£121.55

Mounting brackets

Kit 1

Mounting bracket for direct mounting, from the rear, on wall or machine, not adjustable.

Kit 2

Mounting bracket for rear mounting on wall or machine, adjustable longitudinal and lateral axes.

NOTE: Can only be used in conjunction with kit 1.

Kit 3

Mounting bracket for rear mounting on wall, floor, or machine, adjustable longitudinal and lateral axes.

NOTE: Can only be used in conjunction with kits 1 and 2.

Heavy duty mounting bracket

Steel, painted, heavy duty mounting bracket, with protective hood, for floor mounting, adjustable height.

2 Mounting bracket kits

Description	Order Code	List Price
Kit 1	2015623	£48.21
Kit 2 (also requires kit 1)	2015624	£83.94
Kit 3 (also requires kits 1 and 2)	2015625	£91.23
Heavy duty mounting bracket	7087514	£494.67

S3000 series – High specification laser scanner

SICK

Advanced version



The S3000 Advanced laser scanner provides all the features of the standard version, plus the added flexibility of up to four protective fields, up to four warning fields and four digital inputs for protection field switching.

The S3000 can be used for horizontal and vertical safeguarding of hazardous points of operation, dangerous areas, and access in compliance with Type 3 of IEC/EN 61496-3.

Improved detection capabilities also make the S3000 suitable for hand, limb and body detection.

Ideal applications include:

- Production lines
- Machining centres
- Entry/exit stations
- Robot cells
- Free moving transport vehicles
- Narrow aisle vehicles

Features

- Up to 7m protective field range
- Selectable resolution for hand, leg or body detection
- Ideal for horizontal and vertical use
- Configuration memory is integrated in the system plug
- Variety of field sets ensures safety and productivity when protecting vehicles or moving machine parts

Sick CDS programming software

is available to download free from www.mysick.com

You will also need to order . . .

1 System plug and cable

2 Mounting brackets

You may also need . . .

3 Programming cable

4 RLY3-OSSD1 safety relay

See page 489 for full specification

EN ISO 13849-1 Category	Cat 3
EN ISO 13849-1 Performance Level	PLd
EN 62061 SIL Claim	SIL CL 2

Technical specification

Protective field range Up to 7m
 Field range 49m
 Scanning angle 190°
 Response time 60mS
 Object resolution 30/40/50/70/150mm
 Outputs 2 PNP semiconductors, short circuit protected, cross circuit monitored 500mA max
 Power supply 24V d.c.
 Power consumption 14w (without output load)
 Reset input Integrated
 EDM input Integrated
 Type of connection System plug
 Protection IP65
 Operating temperature -10 to +50°C
 Dimensions h185 x w155 x d160mm

Protective Field Range	Order Code	List Price
4m range	S30A-4011CA	£3,766.18
5.5m range	S30A-6011CA	£4,108.57
7m range	S30A-7011CA	£4,564.62

Accessories

Description	Order Code	List Price
1 Pre-assembled system plug with 5m cable	2027172	£150.30
1 Pre-assembled system plug with 10m cable	2027173	£164.87
1 Pre-assembled system plug with 20m cable	2027815	£191.69
3 2m programming cable - serial	6021195	£21.41
3 2m programming cable - USB	6034574	£50.25
4 OSSD1 safety relay	RLY3-OSSD1	£121.55

Mounting brackets

Kit 1

Mounting bracket for direct mounting, from the rear, on wall or machine, not adjustable.

Kit 2

Mounting bracket for rear mounting on wall or machine, adjustable longitudinal and lateral axes.

NOTE: Can only be used in conjunction with kit 1.

Kit 3

Mounting bracket for rear mounting on wall, floor, or machine, adjustable longitudinal and lateral axes.

NOTE: Can only be used in conjunction with kits 1 and 2.

Heavy duty mounting bracket

Steel, painted, heavy duty mounting bracket, with protective hood, for floor mounting, adjustable height.

2 Mounting bracket kits

Description	Order Code	List Price
Kit 1	2015623	£48.21
Kit 2 (also requires kit 1)	2015624	£83.94
Kit 3 (also requires kits 1 and 2)	2015625	£91.23
Heavy duty mounting bracket	7087514	£494.67

S3000 series – High specification laser scanner

Professional version



The S3000 Professional laser scanner provides all the features of the standard version, plus the added flexibility of up to eight protective fields, up to eight warning fields and eight digital inputs for protection field switching. Versions are also available with incremental encoder inputs for speed dependant field switching.

The S3000 can be used for horizontal and vertical safeguarding of hazardous points of operation, dangerous areas, and access in compliance with Type 3 of IEC/EN 61496-3.

Improved detection capabilities also make the S3000 suitable for hand, limb and body detection.

Ideal applications include:

- Production lines
- Machining centres
- Entry/exit stations
- Robot cells
- Free moving transport vehicles
- Narrow aisle vehicles

Features

- Up to 7m protective field range
- Selectable resolution for hand, leg or body detection
- Ideal for horizontal and vertical use
- Configuration memory is integrated in the system plug
- Variety of field sets ensures safety and productivity when protecting vehicles or moving machine parts

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www.mysick.com

You will also need to order . . .

- 1 System plug and cable**
- 2 Mounting brackets**

You may also need . . .

- 3 Programming cable**
- 4 RLY3-OSSD1 safety relay**
See page 489 for full specification

EN ISO 13849-1 Category	Cat 3
EN ISO 13849-1 Performance Level	PLd
EN 62061 SIL Claim	SIL CL 2

Technical specification

Protective field range Up to 7m
 Field range 49m
 Scanning angle 190°
 Response time 60mS
 Object resolution . . . 30/40/50/70/150mm
 Outputs 2 PNP semiconductors,
 short circuit protected,
 cross circuit monitored
 500mA max
 Power supply 24V d.c.
 Power consumption 14w
 (without output load)
 Reset input Integrated
 EDM input Integrated
 Type of connection System plug
 Protection IP65
 Operating temperature . . -10 to +50°C
 Dimensions . . . h185 x w155 x d160mm

Protective Field Range	Order Code	List Price
4m range	S30A-4011DA	£4,365.69
5.5m range	S30A-6011DA	£4,711.34
7m range	S30A-7011DA	£5,175.78

Accessories

Description	Order Code	List Price
1 Pre-assembled system plug* with 5m cable	2027174	£155.33
1 Pre-assembled system plug* with 10m cable	2027175	£171.01
1 Pre-assembled system plug* with 20m cable	2027816	£200.90
3 2m programming cable - serial	6021195	£21.41
3 2m programming cable - USB	6034574	£50.25
4 OSSD1 safety relay	RLY3-OSSD1	£121.55

*Not for use with incremental encoders

Mounting brackets

Kit 1

Mounting bracket for direct mounting, from the rear, on wall or machine, not adjustable.

Kit 2

Mounting bracket for rear mounting on wall or machine, adjustable longitudinal and lateral axes.

NOTE: Can only be used in conjunction with kit 1.

Kit 3

Mounting bracket for rear mounting on wall, floor, or machine, adjustable longitudinal and lateral axes.

NOTE: Can only be used in conjunction with kits 1 and 2.

Heavy duty mounting bracket

Steel, painted, heavy duty mounting bracket, with protective hood, for floor mounting, adjustable height.

2 Mounting bracket kits

Description	Order Code	List Price
Kit 1	2015623	£48.21
Kit 2 (also requires kit 1)	2015624	£83.94
Kit 3 (also requires kits 1 and 2)	2015625	£91.23
Heavy duty mounting bracket	7087514	£494.67