# LASER SENTINEL™ ENHANCED

**◆DATALOGIC**

Safety laser scanner based on Time Of Flight measurement
More than 72 m² safely monitored, with 5.5 m over 275°
High detection performances in compact size
Advanced dust filtering
Easy programming with intuitive Graphic User Interface

- Dimensions (w,d,h): 102 , 112.5, 152 mm
- I/O connection with standard M12 cables
- Up to 3 simultaenous safety zones
- 2 Warning zones up to 40 m
- 30/40/50/70/150 mm selectable detection capability
- Up to 70 zone sets
- Partial dynamic muting
- Metal brackets allowing full orientation and fast replacement
- Advanced measurement data protocol
- Colour graphic display for monitoring and diagnostics
- Speed measurement with encoder inputs

## 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* | | x | x | x |

# SLS M5 - E - 0812 - E

| MODEL | | MAX SAFETY RANGE | | ENCODER INPUTS | | I/O CONNECTORS | | ENHANCED VERSION | |
|---|---|---|---|---|---|---|---|---|---|
| SA | Standalone, 6 zone sets | 5 | 5.5 m | E | Encoder inputs on secondary connector | 08 | M12 8-pin male | E | Master/Slave Enhanced version |
| M | Master, 10 zone sets | 3 | 3 m | -- | Not present | 0812 | M12 8-pin male OR M12 12-pin male | -- | Standalone Enhanced version (*) |
| R | Slave (or Remote) | | | | | 1708 | M12 17-pin male AND M12 8-pin male | | |

*(*) only for models produced after 31/01/2020*

**◆DATALOGIC**

# TECHNICAL DATA

| | SLS-SA3-08 SLS-SA5-08 | SLS-M3-0812-E SLS-M5-0812-E | | SLS-M3-1708-E SLS-M5-1708-E | | SLS-M5-E-1708-E | SLS-R3-E SLS-R5-E |
|---|---|---|---|---|---|---|---|
| Connector | M12 8-pin | M12 8-pin | M12 12-pin | M12 17-pin | M12 17-pin + M12 8-pin | M12 17-pin + M12 8-pin high speed | N/A |
| **GENERAL DATA** | | | | | | | |
| *Type (EN61496-1)* | 3 | | | | | | |
| *PL (EN ISO 13849-1)* | d | | | | | | |
| *SIL (IEC 61508)* | 2 | | | | | | |
| **DETECTION DATA** | | | | | | | |
| *Detection capability* | 30/40/50/70/150 mm selectable | | | | | | |
| *Angular resolution* | 0,1° | | | | | | |
| *Safety zone operating range* | See Safety operating range table | | | | | | |
| *Warning zone max. operating range* | 40 m | | | | | | |
| *Max. number of symultaneous safety zones* | 1 | 1 | 2 | 3 | | | Depending on connected Master |
| *Max. number of symultaneous warning zones* | 2 | 1 | 2 | 2 (if safety zones < 3) 1 (if safety zones = 3) | | | Depending on connected Master |
| *Max. opening angle* | 275° | | | | | | |
| *Tolerance zone* | 100 mm | | | | | | |
| **ELECTRICAL DATA** | | | | | | | |
| *Power supply (Vdd)* | 24 Vdc ± 20% | | | | | | |
| *Output current* | 0.25 A max / each OSSD | | | | | | N/A |
| *Output Capacitive load* | 2.2 uF @ 24Vdc max | | | | | | N/A |
| *Input Load current* | 6 ... 15 mA | | | | | | N/A |
| *Input saturation voltage* | > 15 V | | | | | | N/A |
| *Input Capacitive Load* | 22 uF | | | | | | N/A |
| **MECHANICAL AND ENVIRONMENTAL DATA** | | | | | | | |
| *Operating temperature* | -10 ...+50 °C | | | | | | |
| *Storage temperature* | -20 ... 70°C | | | | | | |
| *Humidity* | 15 ... 95 % (no condensation) | | | | | | |
| *Mechanical protection* | IP 65 (EN 60529) | | | | | | |
| **INPUTS/OUTPUTS CONFIGURATION DATA** | | | | | | | |
| Connector | M12 8-pin | M12 8-pin | M12 12-pin | M12 17-pin | M12 17-pin + M12 8-pin | M12 17-pin + M12 8-pin | |
| *Safety Outputs (OSSDs)* | 1 x 2 | 1 x 2 | 2 x 2 | 3 x 2 | 3 x 2 | 3 x 2 | N/A |
| *Configurable Inputs* | 0 | 2 | 1 | 4 | 12 | 8 | N/A |
| *Configurable Outputs* | 0 | 0 | v | 2 | 2 | 2 | N/A |
| *Configurable Inputs/Output* | 3 | 1 | 4 | 2 | 2 | 2 | N/A |
| *High speed inputs (100kHz)* | N/A | | | | | 4 | N/A |
| *Total configurable I/O* | 5 | 5 | 7 | 10 | 18 | 18 | N/A |
| **CONFIGURABLE PARAMETERS** | | | | | | | |
| *Response time* | | | | | | | |
|    *for main unit* | Min: 62 ms; Max: 482 ms | | | | | | |
|    *for any additional slave unit* | 10 ms | | | | | | |
| *Connector used* | M12 8-pin | M12 8-pin | M12 12-pin | M12 17-pin | M12 17-pin + M12 8-pin | M12 17-pin + M12 8-pin high speed | |
| *Max. Zone sets number in any activation order (*1):* | | | | | | | |
|   *with 1 safety zone* | 3 | 3 | 10 | 20 | 70 | 70 | |
|   *with 1 safety zone + 1 warning zone* | 2 | 2 | 6 | 20 | 70 | 70 | |
|   *with 1 safety zone + 2 warning zones* | N/A | N/A | 3 | 20 | 70 | 70 | |
|   *with 2 safety zones* | N/A | N/A | 3 | 20 | 70 | 70 | N/A |
|   *with 2 safety zones + 1 warning zone* | N/A | N/A | 2 | 10 | 70 | 70 | |
|   *with 2 safety zones + 2 warning zones* | N/A | N/A | 1 | 6 | 70 | 70 | |
|   *with 3 safety zones* | N/A | N/A | N/A | 6 | 70 | 70 | |
| *Max. Zone sets number in a particular activation order with 1 safety zone (*2):* | 6 | N/A | | | | | |
| *Zone set input switching time* | Min: 30 ms; Max: 5000 ms | | | | | | |
| **FUNCTIONS** | | | | | | | |
| *Manual /automatic restart* | Yes | | | | | | |
| *Reset (power cycle)* | Yes | | | | | | |
| *Total Muting (monodirectional or bidirectional)* | Yes | | | | | | |
| *Partial muting, dynamic for 1st OSSDs couple* | Yes | | | | | | |
| *Reference Points* | Yes | | | | | | |
| *Override* | Yes (*3) | Yes | | | | | N/A |
| *Muting Lamp* | Yes (*3) | Yes | | | | | |
| *Muting Enable* | Yes (*3) | Yes | | | | | |
| *Clean Window Alarm* | Yes | | | | | | |
| *Generic Fault Alarm* | Yes | | | | | | |
| *Shut off* | Yes | | | | | | |
| *Advanced measurement data* | Yes (*4) | Yes (*5) | | | | | |
| *Measurement data max. angolar resolution* | 0.1° | | | | | | 0.5° |
| **APPLICATIONS** | | | | | | | |
| *Horizontal static* | Yes | | | | | | |
| *Vertical static* | Yes | | | | | | |
| *Moving (simple AGVs)* | Yes | | | | | | |
| *Moving (medium complexity AGVs)* | No | Yes | | | | | |

NOTES
(*1) The max number of zone sets switching is reached when all inputs are used for zone set switching. Using 8 inputs or encoder speed measurement the max. number of zone set of 70 can be reached.
(*2) With 1 safety zone only, up to 3 zone sets are available in any activation order. Up to 6 are available only using some allowed activation order. Refer to Manual and GUI for details.
(*3) Ovverride input, Muting Enable input and Muting Lamp output on SLS-SAx are mutually exclusive
(*4) Using the programming connector on the front of the device
(*5) Using the rotating connector in the back of the device
(*6) Only using 12-pin connector
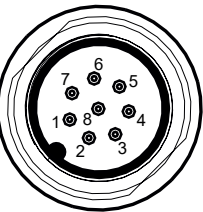(*7) To use more than 2 OSSDs, they have to be selected between configurable outputs

# SAFETY OPERATING RANGE

| | SLS-SA3-08 SLS-M3-xxxx-E SLS-R3-E | SLS-SA5-08 SLS-M5-xxxx-E SLS-M5-E-xxxx-E SLS-R5-E |
|---|---|---|
| Detection Capability | Safety Operating Range | |
| 30 mm | 0.05 ... 2.5 m | |
| 40 mm | 0.05 ... 3 m | 0.05 ... 3 m |
| 50 mm | | 0.05 ... 4 m |
| 70 mm | | 0.05 ... 5.5 m |
| 150 mm | | |

# CONNECTIONS

| CONNECTOR | CHARACTERISTICS | SLS-SAx | SLS-Mx-0812-E | SLS-Mx-(E-)-1708-E | SLS-Rx-E |
|---|---|---|---|---|---|
| A | M12 4-pins female | Ethernet port | Ethernet port | Ethernet port | N/A |
| B | M12 8-pins female | Not Present | Safe Connection to Slave device | Safe Connection to Slave device | Safe connection to next Slave device |
| D | M12 12 poles male | Not Present | Power and digital I/O in alternative to D | N/A | N/A |
| C | M12 8 poles male | Power supply and digital I/O | Power and digital I/O in alternative to C | N/A | N/A |
| E | M12 8-pins female | N/A | N/A | N/A | Safe connection to Master or previous Slave device |
| F | M12 17-pins male | N/A | N/A | Power and digital I/O alone or in combination with D | N/A |
| G | M12 8 poles male | N/A | N/A | Digital inputs in addition to F | N/A |



**SLS-x (Master)**

**SLS-Sx (Standalone)**

**SLS-Mx-(E-)1708-E**

**SLS-Rx-E**
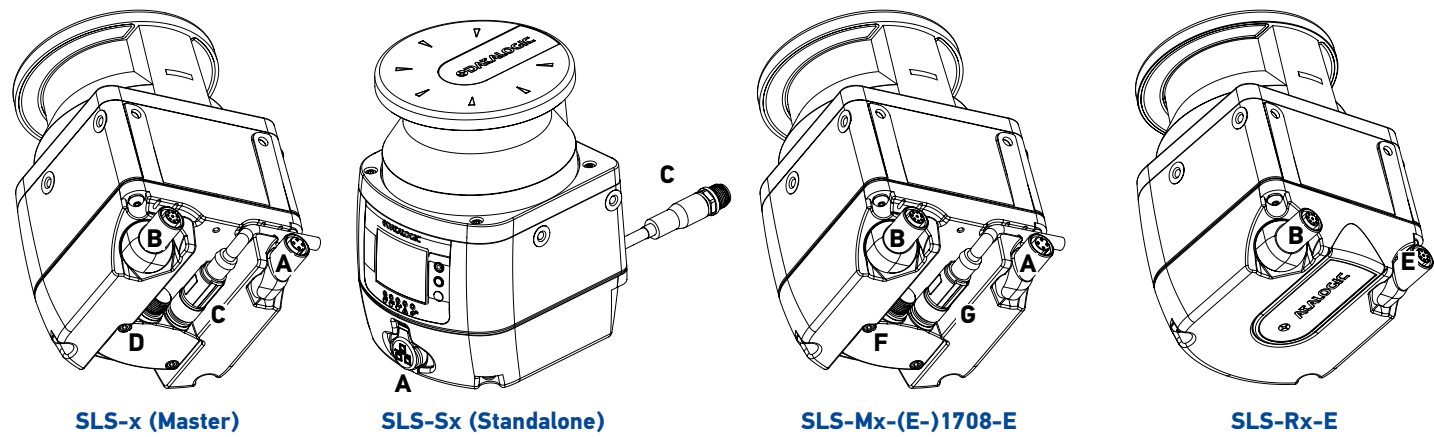
| C CONNECTOR (M12, 8-Pins) | | | | | |
|---|---|---|---|---|---|
| | | SIGNAL | DESCRIPTION | COLOR | PIN NUMBER |
| POWER | | POWER SUPPLY | 24Vdc | BROWN | 2 |
| | | GND_ISO | 0 V | BLUE | 7 |
| INPUT/OUTPUT | | MULTI IN/OUT | Selectable by GUI | WHITE | 1 |
| | | MULTI IN/OUT (*) | Selectable by GUI | GREEN | 3 |
| | | MULTI IN/OUT (*) | Selectable by GUI | YELLOW | 4 |
| SAFETY OUTPUTS | | OSSD11 | Safety Output | GRAY | 5 |
| | | OSSD12 | Safety Output | PINK | 6 |
| OTHER | | F_EARTH | Functional Earth | RED | 8 |

NOTE

(*) Only MULTI IN and SLS-Mx

## D CONNECTOR (M12, 12-Pins)
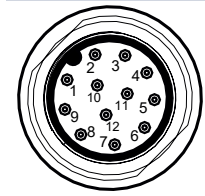
| | SIGNAL | DESCRIPTION | COLOR | PIN NUMBER |
|---|---|---|---|---|
| POWER | POWER SUPPLY | 24Vdc | BROWN | 1 |
| | POWER SUPPLY | 24Vdc | GREEN | 4 |
| | GND_ISO | 0 V | BLUE | 2 |
| | GND_ISO | 0 V | YELLOW | 6 |
| INPUT | MULTI IN | Selectable by GUI | WHITE | 3 |
| INPUT/OUTPUT | MULTI IN/OUT | Selectable by GUI | BLACK | 7 |
| | MULTI IN/OUT | Selectable by GUI | RED | 9 |
| | MULTI IN/OUT | Selectable by GUI | VIOLET | 10 |
| | MULTI IN/OUT | Selectable by GUI | GREY/PINK | 11 |
| SAFETY OUTPUTS | OSSD11 | Safety Output | GRAY | 8 |
| | OSSD12 | Safety Output | PINK | 5 |
| OTHER | F_EARTH | Functional Earth | RED/BLUE | 12 |

## F CONNECTOR (M12, 17-Pins)
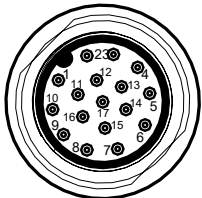
| | SIGNAL | DESCRIPTION | COLOR | PIN NUMBER |
|---|---|---|---|---|
| POWER | POWER SUPPLY | 24Vdc | BROWN | 1 |
| | POWER SUPPLY | 24Vdc | BROWN | 10 |
| | POWER SUPPLY | 24Vdc | BROWN | 11 |
| | GND_ISO | 0 V | BLUE | 2 |
| | GND_ISO | 0 V | BLUE | 3 |
| | GND_ISO | 0 V | BLUE | 12 |
| INPUT | MULTI IN | Selectable by GUI | ORANGE | 6 |
| | MULTI IN | Selectable by GUI | BLACK | 7 |
| | MULTI IN | Selectable by GUI | WHITE | 14 |
| | MULTI IN | Selectable by GUI | VIOLET | 17 |
| OUTPUT | MULTI OUT | Selectable by GUI | GREEN | 4 |
| | MULTI OUT | Selectable by GUI | YELLOW | 15 |
| INPUT/OUTPUT | MULTI IN/OUT | Selectable by GUI | WHITE/BLACK | 5 |
| | MULTI IN/OUT | Selectable by GUI | RED | 9 |
| SAFETY OUTPUTS | OSSD11 | Safety Output | GRAY | 13 |
| | OSSD12 | Safety Output | PINK | 8 |
| OTHER | F_EARTH | Functional Earth | YELLOW/GREEN | 16 |

## G CONNECTOR (M12, 8-Pins)
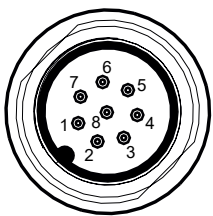
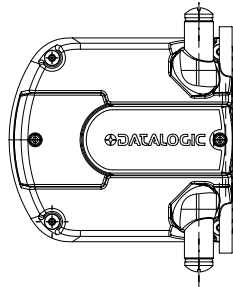| | SIGNAL | DESCRIPTION | COLOR | PIN NUMBER |
|---|---|---|---|---|
| HIGH SPEED INPUTS (*) | HIGH SPEED INPUT | Encoder input 11 | GRAY | 4 |
| | HIGH SPEED INPUT | Encoder input 12 | PINK | 6 |
| | HIGH SPEED INPUT | Encoder input 21 | YELLOW | 5 |
| | HIGH SPEED INPUT | Encoder input 22 | RED | 8 |
| INPUTS | MULTI IN | Selectable by GUI | GREEN | 3 |
| | MULTI IN | Selectable by GUI | BLUE | 7 |
| | MULTI IN | Selectable by GUI | BROWN | 2 |
| | MULTI IN | Selectable by GUI | WHITE | 1 |

NOTE

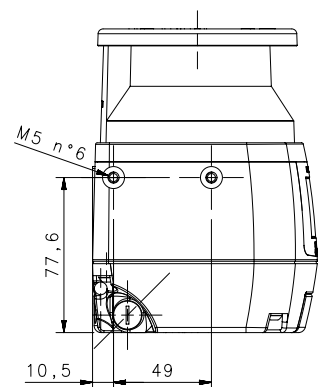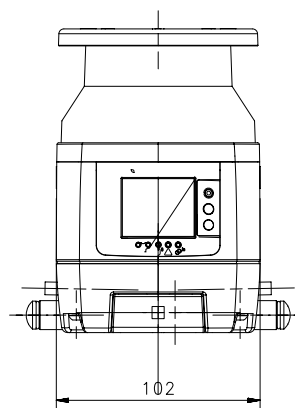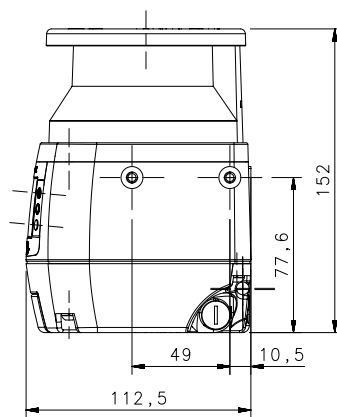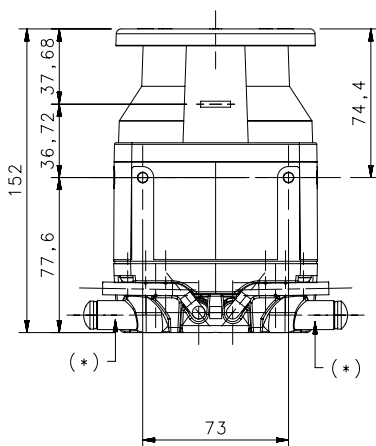(*) Only for SLS-M5-E-1708-E. Otherwise they are standard digital inputs selectable by GUI

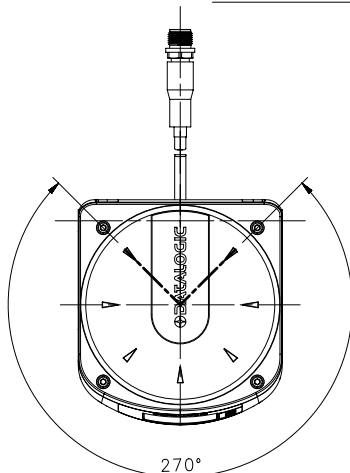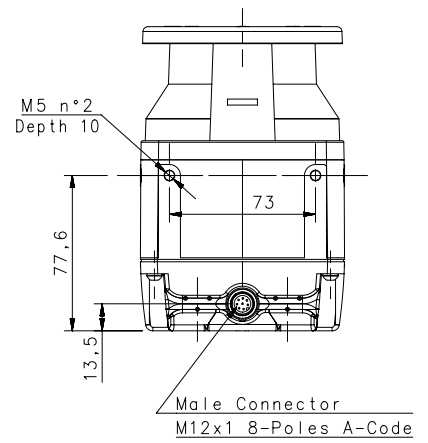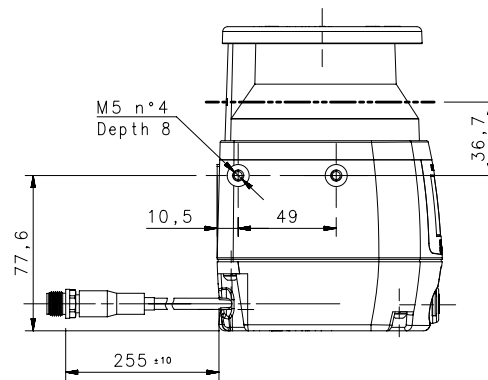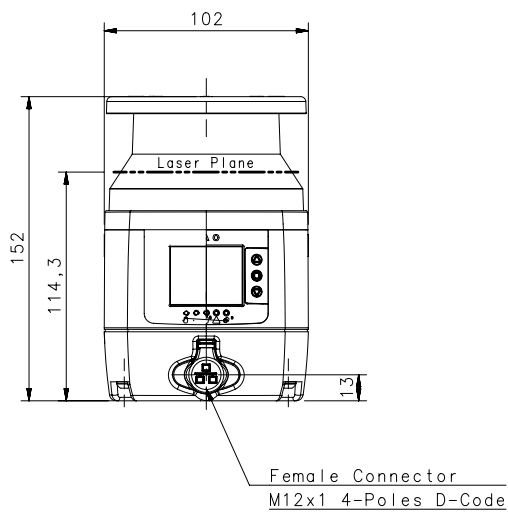| IN /OUT | Signal | SLS-Sax 8-pin | SLS-Mx-0812-E 8-pin | SLS-Mx-0812-E 12 pin | SLS-Mx-1708-E 17-pin | SLS-Mx-1708-E 17 + 8 pin | SLS-M5-E-1708-E 17 + 8 pin | NOTES |
|---|---|---|---|---|---|---|---|---|
| MULTI IN | Reset | | YES | YES | YES | YES | YES | |
| | Restart | | YES | YES | YES | YES | YES | |
| | Reset/Restart | | YES | YES | YES | YES | YES | |
| | Area Switch 1 | | YES | YES | YES | YES | YES | |
| | Area Switch 2 | | YES | YES | YES | YES | YES | |
| | Area Switch 3 | | YES | YES | YES | YES | YES | |
| | Area Switch 4 | N/A | N/A | YES | YES | YES | YES | |
| | Area Switch 5 | N/A | N/A | YES | YES | YES | YES | |
| | Muting Enable 1 | | YES | YES | YES | YES | YES | |
| | Muting 11 | | YES | YES | YES | YES | YES | In order to activate muting, both muting inputs must be used |
| | Muting 12 | | YES | YES | YES | YES | YES | |
| | Override 11 | | YES | YES | YES | YES | YES | |
| | Override 12 | | YES | YES | YES | YES | YES | |
| | Muting Enable 2 | N/A | N/A | N/A | YES | YES | YES | |
| | Muting 21 | N/A | N/A | N/A | YES | YES | YES | In order to activate muting, both muting inputs must be used |
| | Muting 22 | N/A | N/A | N/A | YES | YES | YES | |
| | Override 21 | N/A | N/A | N/A | YES | YES | YES | |
| | Override 22 | N/A | N/A | N/A | YES | YES | YES | |
| MULTI OUT | Warning 1 | | YES | YES | YES | YES | YES | |
| | Warning 2 | YES | NO | YES | YES | YES | YES | |
| | Muting lamp 1 | | YES | YES | YES | YES | YES | Can be used in combination with muting function |
| | Muting lamp 2 | N/A | N/A | YES | YES | YES | YES | |
| | Override status 1 | | YES | YES | YES | YES | YES | |
| | Override status 2 | N/A | N/A | YES | YES | YES | YES | |
| | Alarm 1 | | YES | YES | YES | YES | YES | Clean Window Alarm |
| | Alarm 2 | | YES | YES | YES | YES | YES | General Fault Alarm |
| OSSDs | OSSD 11 | | YES | YES | YES | YES | YES | |
| | OSSD 12 | | YES | YES | YES | YES | YES | |
| | OSSD 21 | N/A | N/A | N/A | YES | YES | YES | |
| | OSSD 22 | N/A | N/A | N/A | YES | YES | YES | |
| | OSSD 31 | N/A | N/A | N/A | N/A | YES | YES | |
| | OSSD 32 | N/A | N/A | N/A | N/A | YES | YES | |

# DIMENSIONS

**SLS-Mx**



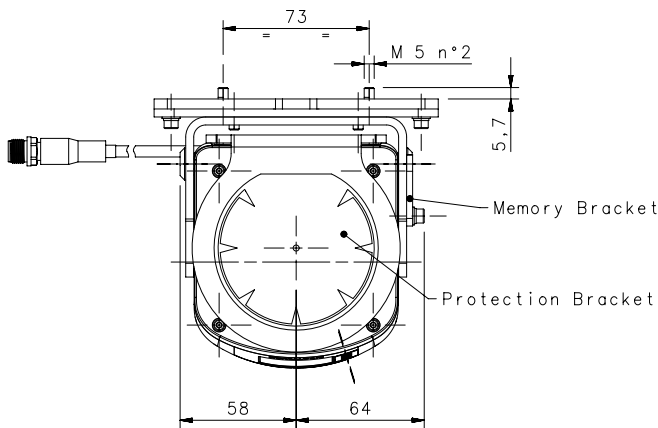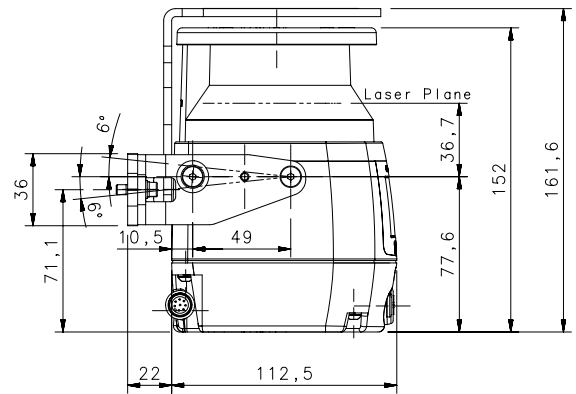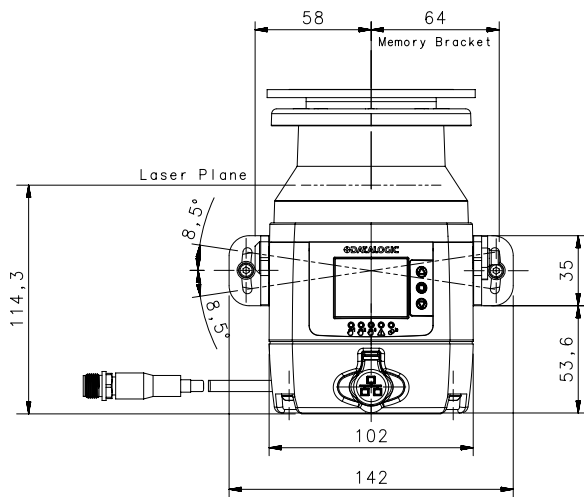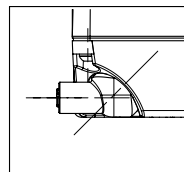*Rotating connectors can be positioned alternatively along x, y and z axis

58  64
Positioning memory bracket
Laser Plane
+/– 8,5°
114,3
35
53,6
102
142

73  M 5 n°2
5,7
Positioning memory bracket
Protection Bracket
58  64

+/– 6°
Laser Plane
36,7
151,45
36
71,1
77,6
10,5  49
22  112,5

102
Laser Plane
152
114,3
13
Female Connector
M12x1 4-Poles D-Code

M5 n°4 Depth 8
36,7
77,6
10,5  49
255 ±10

M5 n°2 Depth 10
73
77,6
13,5
Male Connector
M12x1 8-Poles A-Code

270°

# DIMENSIONS

**Memory Bracket**

58     64

Laser Plane

8,5°
8,5°

114,3

35

53,6

102

142

---

6°

9°

36

71,1

10,5    49

22     112,5

Laser Plane

36,7

152

161,6

77,6

---

73

M 5 n°2

5,7

Memory Bracket

Protection Bracket

58     64

FIXING
N°2 Holes M5
Depth □6 mm
Drilling Distance 73 mm

---

**SLS-Rx**

102

48,5

152

95

Laser plane

114,3

119,2

---

112,5

Laser plane

M5 n°4
Depth 8mm

10,5    49

77,6

8,75

36,7

---

M5 n°2
Depth 10mm

73

77,6

Rotating
connectors

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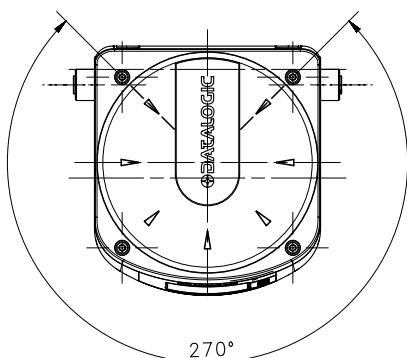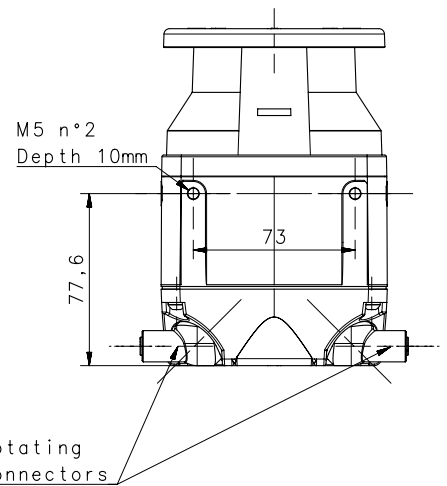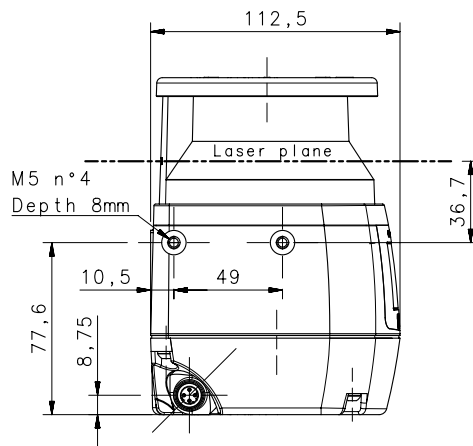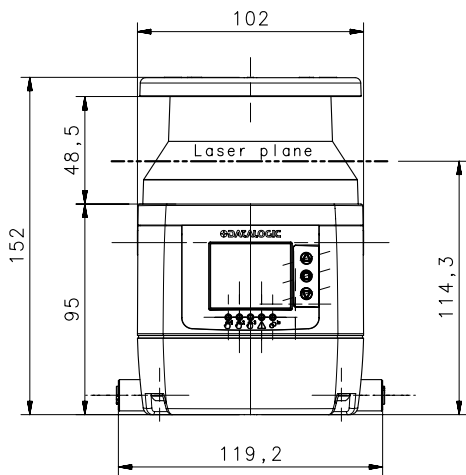
Rotating connectors 120°

270°

# MODEL SELECTION - ORDER INFORMATION

|  | MODEL | PRODUCT DESCRIPTION | ORDER NO. |
|---|---|---|---|
| STANDALONE | SLS-SA3-08 | Standalone 3m 6 zone sets enhanced | 958001080 |
| | SLS-SA5-08 | Standalone 5.5m 6 zone sets enhanced | 958001090 |
| MASTER | SLS-M3-0812-E | Master 3m 10 zone sets enhanced | 958001020 |
| | SLS-M5-0812-E | Master 5.5m 10 zone sets enhanced | 958001110 |
| | SLS-M3-1708-E | Master 3m 70 zone sets enhanced | 958001010 |
| | SLS-M5-1708-E | Master 5.5m 70 zone sets enhanced | 958001030 |
| | SLS-M5-E-1708-E | Master 5.5m encoder 70 zone sets enhanced | 958001050 |
| SLAVE | SLS-R3-E | Remote 3m enhanced | 958001060 |
| | SLS-R5-E | Remote 5.5m enhanced | 958001120 |

NOTE: the standalone models have enhanced features if produced after 31.01.2020

# ACCESSORIES

|  | SLS-B5 / SLS-SAx | 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 |
| **MAINTENANCE ACCESSORIES** | | |
| Replacement window | SLS-WINDOW | 95ASE2971 |
| Memory group M12 8/12 pins | SLS-MG-0812 | 95ASE2960 |
| Memory group M12 17/8 pins | SLS-MG-1708 | 95ASE2950 |
| Liquid cleaner in spray bottle ( 1 lt ) | SLS-CLEANER | 95ASE2990 |
| Cleaning cloth ( 22 cm x 22 cm ), 100 pcs. | SLS-CLOTH | 95ASE3000 |



**SLS-BRACKET-A**



**SLS-BRACKET-B**
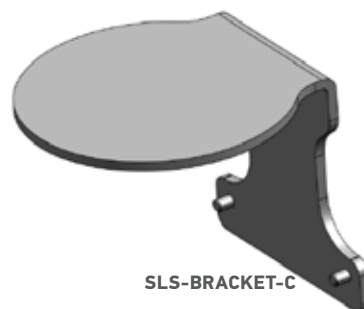


**SLS-BRACKET-C**

DATALOGIC

# CABLES

| | MODEL | 1st end | 2nd end | LENGHT | CODE |
|---|---|---|---|---|---|
| MAIN CABLES | CS-A1-06-U-03 | 8 pin male | free wires | 3 m | 95ASE1220 |
| | CS-A1-06-U-05 | | | 5 m | 95ASE1230 |
| | CS-A1-06-U-10 | | | 10 m | 95ASE1240 |
| | CS-A1-06-U-15 | | | 15 m | 95ASE1250 |
| | CS-A1-06-U-25 | | | 25 m | 95ASE1260 |
| | CS-A1-10-U-03 | 12 pin male | free wires | 3 m | 95A252720 |
| | CS-A1-10-U-05 | | | 5 m | 95A252730 |
| | CS-A1-10-U-10 | | | 10 m | 95A252740 |
| | CS-A1-10-U-15 | | | 15 m | 95A252750 |
| | CS-A1-10-U-25 | | | 25 m | 95A252760 |
| | CS-A1-15-U-03 | 17 pin male | free wires | 3 m | 95ASE3010 |
| | CS-A1-15-U-05 | | | 5 m | 95ASE3020 |
| | CS-A1-15-U-10 | | | 10 m | 95ASE3030 |
| | CS-A1-15-U-15 | | | 15 m | 95ASE3040 |
| | CS-A1-15-U-25 | | | 25 m | 95ASE3050 |
| ETHERNET TO HOST CABLES | CAB-ETH-M01 M12-IP67 ETHERNET CAB. (1M) | 4 pin male | RJ45 | 1 m | 93A051346 |
| | CAB-ETH-M03 M12-IP67 ETHERNET CAB. (3M) | | | 3 m | 93A051347 |
| | CAB-ETH-M05 M12-IP67 ETHERNET CAB. (5M) | | | 5 m | 93A051348 |
| | CAB-ETH-M10 M12-IP67 ETHERNET CAB. (10M) | | | 10 m | 93A051391 |
| CABLES TO REMOTE | SLS-CABLE-R-5 | 8 pin male | 8 pin male | 5 m | 95ASE2890 |
| | SLS-CABLE-R-10 | | | 10 m | 95ASE2900 |
| | SLS-CABLE-R-20 | | | 20 m | 95ASE2910 |

NOTES

ETHERNET TO HOST CABLES are used for programming and monitoring the device with DL Sentinel, and for reading the measurement data.
CABLES TO REMOTE are used to connect the Master models to the Slaves like in the following picture
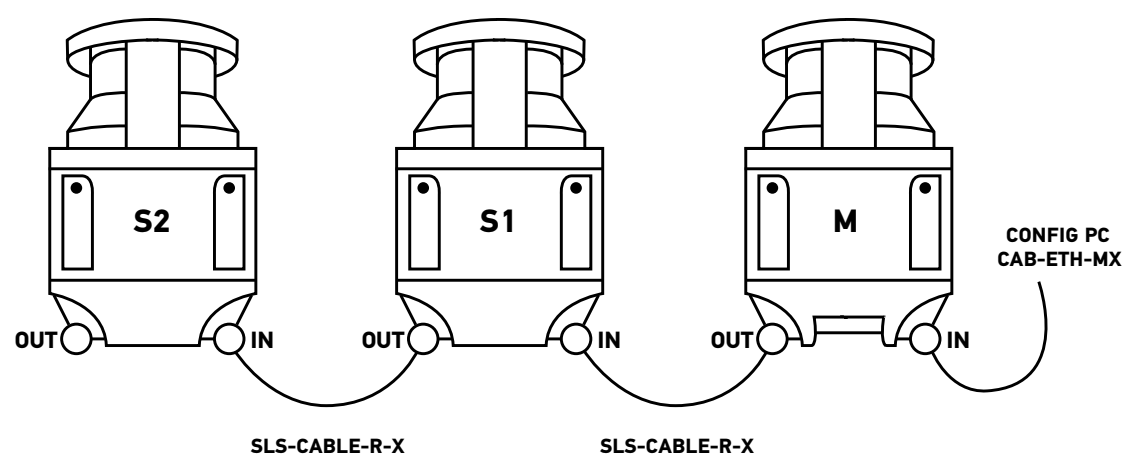
The colour graphical display of LASER SENTINEL shows if any person has been detected in the safety or warning areas, causing by consequnce the stopping of the machine or the warning signal to activate.
The presence of 11 angular sectors allow to show the direction in which the person has been detected, and its colour indicate if it has been inside the safety (red) or the warning zone (yellow).

| DISPLAYED ICON | NAME | DESCRIPTION |
|---|---|---|
| **GO** | **ON state** | The device is correctly functioning (OSSDs GO Condition). No presence detected in the Safety and Warning Area. (Configuration accepted) |
| **WARNING** | **OFF State for intrusion in Safety Area** | The device is correctly functioning. The device has detected a presence in the Warning Area (Configuration accepted) |
| **STOP** | **Warning for intrusion in Warning Area** | The device is correctly functioning (OSSDs STOP Condition). The device has detected a presence in the Safety Zone. (Configuration accepted) |
| **REFERENCE** | **OFF State for Reference Points** | The device has detected that Reference Points have moved. The Display Sector in the direction of the moved reference point is lit in blue. |

| LED NUMBER | SYMBOL | DEFINITION | COLOR | MEANING | OUTPUT STATUS |
|---|---|---|---|---|---|
| 1 | 🖐1 | Object Detection in Safety Zone 1 (OSSD 11/12). | GREEN | No object detected | OSSDs OFF |
| | | | RED | Object detected | OSSDs ON |
| 2 | 🖐2 | Object Detection in Safety Zone 2 (OSSD 21/22). | GREEN | No object detected | OSSDs OFF |
| | | | RED | Object detected | OSSDs ON |
| 3 | 🖐3 | Object Detection in Safety Zone 3 or Warning Zone 2 | AMBER | Object detected | OSSDs OFF Warning 2 ON/OFF if set up |
| | | | OFF | No object detected | OSSDs ON Warning 2 output varies depending on warning function configuration |
| 4 | ⚠ | Object Detection in Warning Zone 1 | AMBER | Object detected in Warning Zone 1 | Warning 1 output varies depending on warning function configuration |
| | | | OFF | No object detected in Warning Zone 1 | Warning 1 output varies depending on warning function configuration |
| 5 | ⌒In | Interlock | AMBER | No Object detected in Safety Zone Device waiting for Manual Restart (LED1 RED) | OSSDs OFF |
| | | | OFF | No Object detected in Safety Zone Device in ON Status (LED 1 GREEN) | OSSDs ON |
| | | | | Object detected in Safety Zone Device in OFF Status (LED 1 RED) | OSSDs OFF |

## DATALOGIC PRODUCT OFFERING



Sensors

Hand Held scanners

Mobile Computers

Laser Marking Systems

Vision Systems

Stationary Industrial Scanners

Safety Light Curtains

RFID Systems