**COLATALOGIC** 

## 1-800-633-0405 Datalogic Safety Laser Scanners



Datalogic Safety Laser Scanners provide a cost-effective way to safeguard static applications such as robot cells and moving applications such as automatic guided vehicles (AGVs). They are also ideal for providing safe access to potentially dangerous locations or areas.

The Safety Laser Scanners are configurable to meet a wide range of area protection needs. They features a 275-degree viewing window and allow for several user-definable zones of protection.

These scanners can also be configured to filter out dust in order to eliminate false trips.

#### **Features**

- 275° viewing window
- Easy programming with intuitive Graphic User Interface (GUI)
- Three levels of advanced dust filtering configurable via GUI
- · Can be installed to monitor either horizontally or vertically
- Configurable warning areas extending up to 40m [131.23 ft] out
- Two distinct and assignable warning signals
- Muting capability for vertical installations
- Three I/O points, each configured either as input or output via GUI



	Datalogic Safety Laser Scanner Selection Guide					
Part Number	Price	Safe Operating Range	Resolution	Safe Operating Angle	Angular Resolution	Dimensional Drawing
<u>SLS-SA3-08</u>	\$2,102.00	Up to 3m [9.84 ft]	See Detection/Operating Range Chart	275°	0.1°	PDF
<u>SLS-SA5-08</u>	\$2,558.00	Up to 5.5 m [18.04 ft]	See Detection/Operating Range Chart	275°	0.1°	PDF

	Detection / Operating Range*		
	<u>SLS-SA3-08</u>	<u>SLS-SA5-08</u>	
30mm [1.18 in]	2.5 m [8.20 ft]	2.5 m [8.20 ft]	
40mm [1.57 in]	3m [9.84 ft]	3m [9.84 ft]	
50mm [1.97 in]	3m [9.84 ft]	4m [13.12 ft]	
70mm [2.76 in]	3m [9.84 ft]	5.5 m [18.04 ft]	
150mm [5.91 in]	3m [9.84 ft]	5.5 m [18.04 ft]	

\* Minimum operating range is 50mm [2.0 in]

General Specifications		
Supply Voltage	24Vdc ± 20%	
Safety Outputs (OSSD)	0.25 A max / each OSSD	
<b>Operating Temperature</b>	-10 to 50 °C [14 to 122 °F]	
Humidity	Up to 95% (no condensation)	
Safety Category	Type 3, SIL 2, Pld	
PFHd	6.38 x 10-8	
Response Time	Varies based on configuration(min: 62ms)	
MTTFd	61 years	
DCavg	96.6%	
Degree of Protection	IP65	
Power Consumption	8W	
Weight	2.92 lb [1.32 kg]	
Connections	M12 8-pin QD (Power and I/O) M12 4-pin QD (Ethernet - configuration only)	
Maximum Connection Length	25m [82.02 ft]	
Warning Zone Operating Range	40m [131.2 ft]	
Certifications	TUV, CE, cULus	



Datalogic Safety Laser Scanners can manage two simultaneous warning zones and one safe zone. Safe zones can extend up to 5.5 m [18.04 ft], depending on the model, over an angle of 275 degrees. Warning zones can extend 40m [131.2 ft].

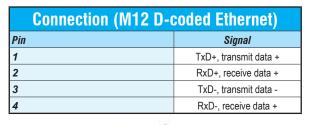
### 1-800-633-0405 Datalogic Safety Laser Scanners



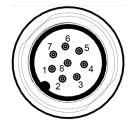
	I/O Point Options (only three may be selected)				
Type I/O	Description	ion Notes			
	Reset				
	Restart				
	Reset/Restart				
	EDM				
	Area Switch 1	Two area zones can be specified using	Up to six area zones can be specified using		
	Area Switch 2	Area Switch 1 and 2	Area Switch 1, 2, and 3		
Inputs	ts Area Switch 3		(When using four or more area zones, consult hardware manual for info on zone set switching)		
	Warning 1				
	Warning 2				
	Muting 1	In order to activate muting	oth muting inputs must be used		
	Muting 2	In order to activate muting			
	Muting Enable	Can be used in combination with muting function			
	Override	Can be used in combination with muting function			
	Muting Lamp	Can be used in combination with muting function			
Outputs	Override Status	Can be used in combination with muting function			
Julpuis	Alarm 1	Clean Window Alarm			
	Alarm 2	General Fault Alarm			

### **Connection Diagrams**

Connection (M12 8-pin)		
Pin	Color*	Description
1	White	Selectable I/O (by GUI)
2	Brown	24VDC
3	Green	Selectable I/O (by GUI)
4	Yellow	Selectable I/O (by GUI)
5	Gray	Safety Output (OSSD)
6	Pink	Safety Output (OSSD)
7	Blue	0V
8	Red	Ground
* This connection chart is for 292 series 8-pin cables		



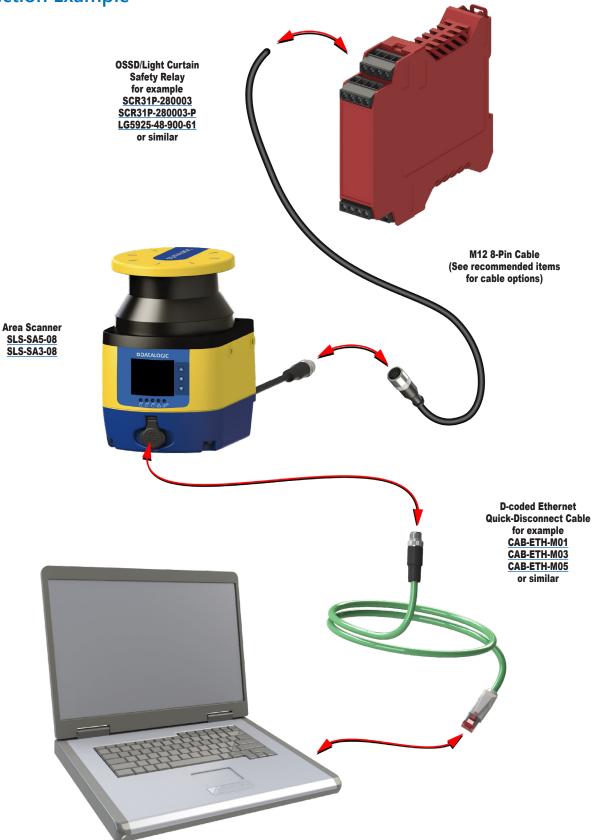




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### 1-800-633-0405 Datalogic Safety Laser Scanners

### **Connection Example**



For the latest prices, please check AutomationDirect.com.

## 1-800-633-0405 Datalogic **Safety Laser Scanners** Accessories

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Datalogic Laser Sentinel Area Scanner Accessories Selection Chart				
Part Number	Price	Description	Weight (kg [lb])	Dimensional Drawing
SLS-BRACKET-A	\$96.00	Bracket, Mounting, Pitch and Roll Regulation Bracket System	0.53 [1.17]	<u>PDF</u>
SLS-BRACKET-B	\$61.00	Bracket, Mounting, Pitch Regulation Bracket System	0.24 [0.53]	PDF
SLS-BRACKET-C	\$35.50	Bracket, Mounting, Head Protective Bracket	0.47 [1.04]	PDF
SLS-WINDOW	\$263.00	Lens, SLS, Replacement Window	0.22 [0.49]	PDF

### BRACKET WITH PITCH AND ROLL ADJUSTMENT



**SLS-BRACKET-A** 



**SLS-BRACKET-A** assembled with SLS-SA5-08







**SLS-BRACKET-B** 



SLS-BRACKET-B assembled with SLS-SA5-08

### HEAD PROTECTIVE BRACKET



**SLS-BRACKET-C** www.automationdirect.com



SLS-BRACKET-C assembled with SLS-SA5-08





### 1-800-633-0405 For the I Datalogic – Ethernet Cables

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	Datalogic Communication Cables		
Part Number	Price	Description	
CAB-ETH-M01	\$52.00	Datalogic cable, Ethernet, PVC jacket, shielded, 1m [3.28 ft] cable length, M12 4-pin male D-coded to RJ45	
CAB-ETH-M03	\$63.00	Datalogic cable, Ethernet, PVC jacket, shielded, 3m [9.84 ft] cable length, M12 4-pin male D-coded to RJ45	
CAB-ETH-M05	\$75.00	Datalogic cable, Ethernet, PVC jacket, shielded, 5m [16.40 ft] cable length, M12 4-pin male D-coded to RJ45	



CAB-ETH-M01



CAB-ETH-M03



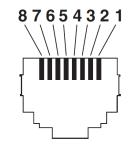
CAB-ETH-M05

#### Diagrams



Pin assignment M12 male connector,

4-pos., D-coded, male side



Connector pin assignment plug RJ45



**Cable cross section** 

# **Safety Products**



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.