



Safety laser scanners
S3000 Cold Store, Sensor head with I/O module
and system plug

S31A-7011CA



Model Name > S31A-7011CA
Part No. > 1041648



At a glance

- Designed and certified for temperatures down to -30 °C
- Modified housing with integrated temperature controller
- IP 67 enclosure rating
- 7 m protective field range
- Four switchable field sets (four protective fields, eight warning fields)
- EFI interface for safe SICK device communication
- Selectable resolution for hand, leg or body detection
- Contour as reference for vertical applications

Your benefits

- First safety laser scanner available on the market which can be used at temperatures as low as -30 °C.
- Hazard area, hazard point, access or vehicle protection in cold areas.
- Largest protective field range in the market increases the variety of application possibilities
- Expandable modular system, simple cabling and additional functions such as the simultaneous monitoring of up to four protective fields using SICK safety controllers with EFI
- Easy installation, commissioning and maintenance for stationary and mobile applications
- Decades of proven safety technology guarantee maximum reliability and productivity – even under difficult conditions



Applications

Hazardous area protection (vertical):	✓
Access protection (vertical):	✓
Hazardous area protection (horizontal):	✓

Functions

Number of simultaneously monitored protective fields:	≤ 4 ¹⁾
Static control outputs for protective field switching:	✓
Incremental encoder inputs:	-
External device monitoring (EDM):	-
Integrated configuration memory:	-
Expanded measured data output (CMS, RS-422):	-

Measured data output (RS-422): -
Safe device communication via EFI/SDL: ✓

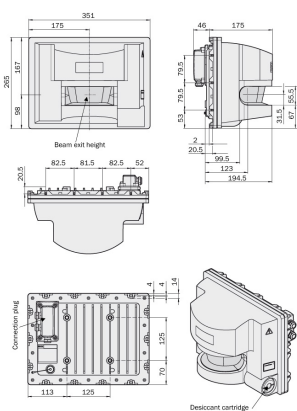
¹⁾ If more than one protective field is monitored simultaneously, then the safe output signals must be routed to safe outputs of a Flexi Soft safety controller, or via a safe EFI gateway.

Technical data

Laser protection class:	1 (21 CFR 1040.10 and 1040.11, DIN EN 60825:2001)
Enclosure rating:	IP 65 (EN 60529) IP 67 (EN 60529)
Protection class:	II (EN 50178)
Type:	Type 3 (IEC/EN 61496-3)
Safety integrity level:	SIL2 (IEC 61508), SILCL2 (EN 62061)
Category:	Category 3 (EN ISO 13849)
Performance level:	PL d (EN ISO 13849)
PFHd:	8.0 * 1E-08 (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Ambient operating temperature from ... to:	-30 °C ... 50 °C
Dimensions (W x H x D):	351 mm x 265 mm x 221 mm
Weight:	9 kg
Scan angle:	180 °
Protective field range:	7 m
Maximum warning field range:	49 m
Number of field sets:	4
Response time:	60 ms ¹⁾
Resolution:	30 mm, 40 mm, 50 mm, 70 mm, 150 mm, selectable
Distance measuring range:	49 m
Number of multiple samplings:	Configurable via CDS 2 ... 16
Electrical connection:	Plug-in connection housing with screw, screw-type terminals
Supply voltage scanner:	17.5 V DC, 24 V DC, 28.8 V DC
Supply voltage heating:	16.8 V DC, 24 V DC, 28.8 V DC
Number of static control inputs:	2
Number of static control inputs with EFI:	5 ²⁾
Number of safe outputs:	2, Safety outputs (OSSD)
Number of application diagnostic outputs:	2 ³⁾
Maximum output current:	500 mA
Configuration and diagnostics interface:	RS-232

¹⁾ Depending on basic response time and multiple sampling ²⁾ Via EFI, only in combination with a Flexi Soft safety controller or EFI gateways ³⁾ Freely programmable, e.g., warning field, contamination, reset required

Dimensional drawing



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