



S32B-2011EA

S300 Mini Remote

SAFETY LASER SCANNERS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
S32B-2011EA	1051884

Usage

Only use preassembled extension cables. See "Accessories" for suitable cables.

Other models and accessories → www.sick.com/S300_Mini_Remote

Detailed technical data

Features

Usage	Can only be used in the EFI system network, e.g., with a Flexi Soft safety controller and an additional S300 or S3000 safety laser scanner
Application	Indoor
Protective field range	2 m
Warning field range	8 m (at 15 % reflectivity)
Distance measuring range	30 m
Type of field set	Triple field sets
Number of field sets	16
Number of fields	48
Number of monitoring cases	32
Scanning angle	270°
Resolution (can be configured)	30 mm, 40 mm, 50 mm, 70 mm
Angular resolution	0.5°
Response time	80 ms ¹⁾
Protective field supplement	100 mm
Number of multiple samplings	2 ... 16, configurable
Delay of automatic reset	2 s ... 60 s, configurable

¹⁾ Depending on basic response time and multiple sampling.

Safety-related parameters

Type	Type 3 (IEC 61496)
Safety integrity level	SIL2 (IEC 61508)
Category	Category 3 (EN ISO 13849)

Performance level	PL d (EN ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	8.0×10^{-8}
T_M (mission time)	20 years (EN ISO 13849)

Functions

Multiple sampling	✓
Monitoring case switching	✓
Static protective field switching	✓
Dynamic protective field switching	✓
Contour as a reference	✓
Measured data output	None
Safe SICK device communication via EFI	✓

Interfaces

Connection type	Cable, 250 mm, with male connector M12, 7-pin
Inputs	
Static control inputs with EFI	5 ¹⁾
Standby	1 ¹⁾
Outputs	Depends on the configuration of the connected EFI device
Configuration method	PC with CDS (Configuration and Diagnostic Software)
Configuration and diagnostics interface	RS-232
Transmission rate	38.4 kBaud
Safe SICK device communication via EFI	
Transmission rate	≤ 500 kBaud
Length of cable	≤ 20 m ²⁾

¹⁾ Can only be used in the EFI system network, e.g., with a Flexi Soft safety controller and an additional S300 or S3000 safety laser scanner.

²⁾ Only preassembled extension cables permitted.

Electrical data

Protection class	III (EN 50178) EN 60950
Supply voltage V_s	24 V DC (16.8 V DC ... 30 V DC)
Power consumption	≤ 0.2 A ¹⁾ ≤ 0.22 A ²⁾

¹⁾ At 24 V DC without output load.

²⁾ At 24 V DC including maximum output load.

Mechanical data

Dimensions (W x H x D)	102 mm x 116 mm x 105 mm
Weight	0.8 kg, without connecting cables
Housing material	Aluminum die cast
Housing color	RAL 1021 (yellow), RAL 9005 (black)
Optics cover material	Polycarbonate

Optics cover surface finish	Outside with scratch-resistant coating
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Ambient data

Enclosure rating	IP65 (EN 60529)
Ambient operating temperature	-10 °C ... +50 °C
Storage temperature	-25 °C ... +50 °C
Vibration resistance	IEC 60068-2-6, IEC 60068-2-64, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3
Class	5M1 (IEC 60721-3-5)
Shock resistance	IEC 60068-2-27, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3
Class	5M1 (IEC 60721-3-5)
Continuous shock	50 m/s ² , 11 ms 100 m/s ² , 16 ms

Other information

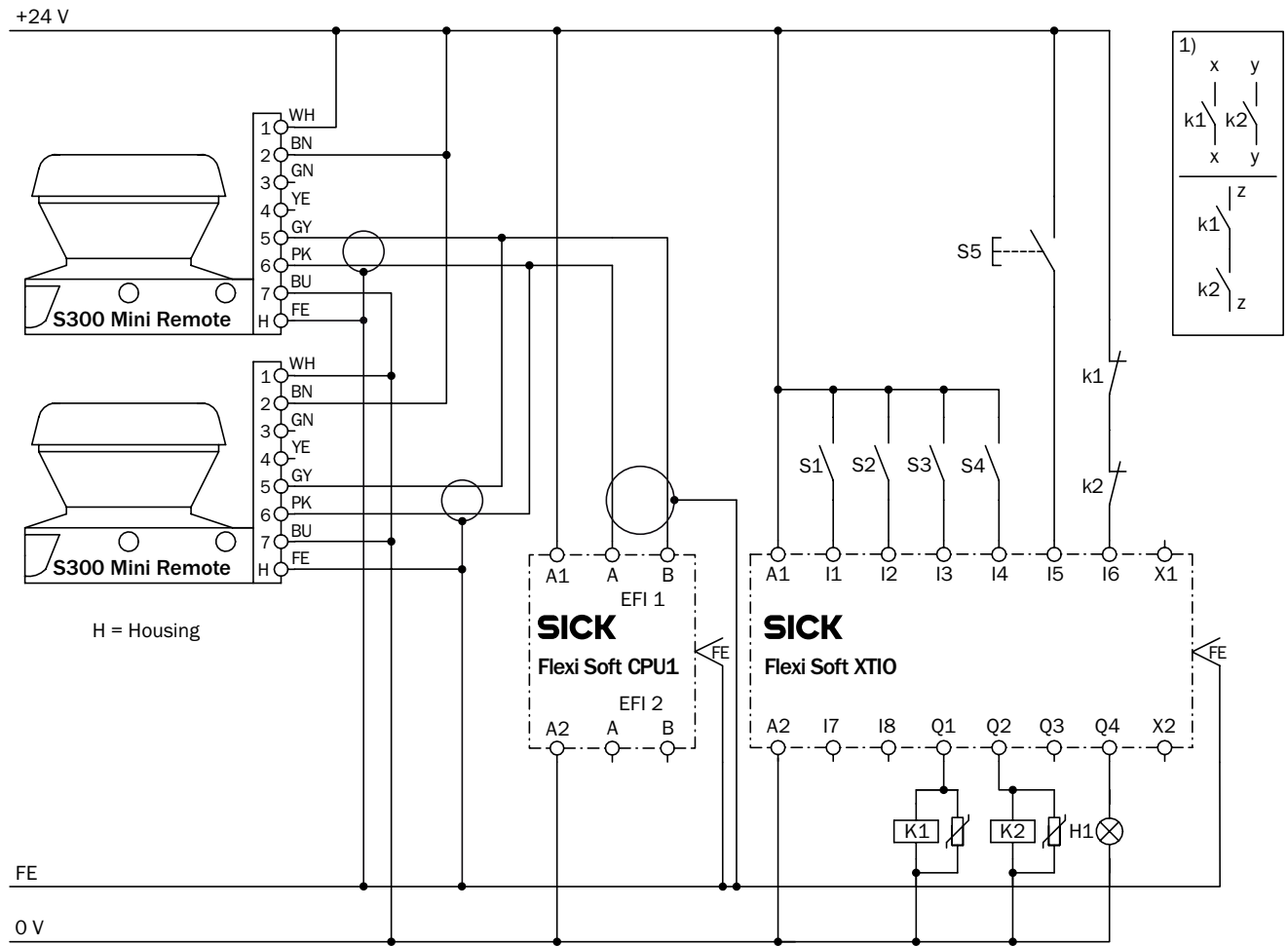
Type of light	Pulsed laser diode
Wave length	905 nm
Detectable remission factor	1.8 % ... > 1,000 %, reflectors
Laser class	1 (21 CFR 1040.10 and 1040.11, IEC 60825-1)

Classifications

eCl@ss 5.0	27272705
eCl@ss 5.1.4	27272705
eCl@ss 6.0	27272705
eCl@ss 6.2	27272705
eCl@ss 7.0	27272705
eCl@ss 8.0	27272705
eCl@ss 8.1	27272705
eCl@ss 9.0	27272705
eCl@ss 10.0	27272705
eCl@ss 11.0	27272705
eCl@ss 12.0	27272705
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	39121528

Connection diagram

S300 Mini Remote: Protective field switch with the help of a Flexi Soft safety controller



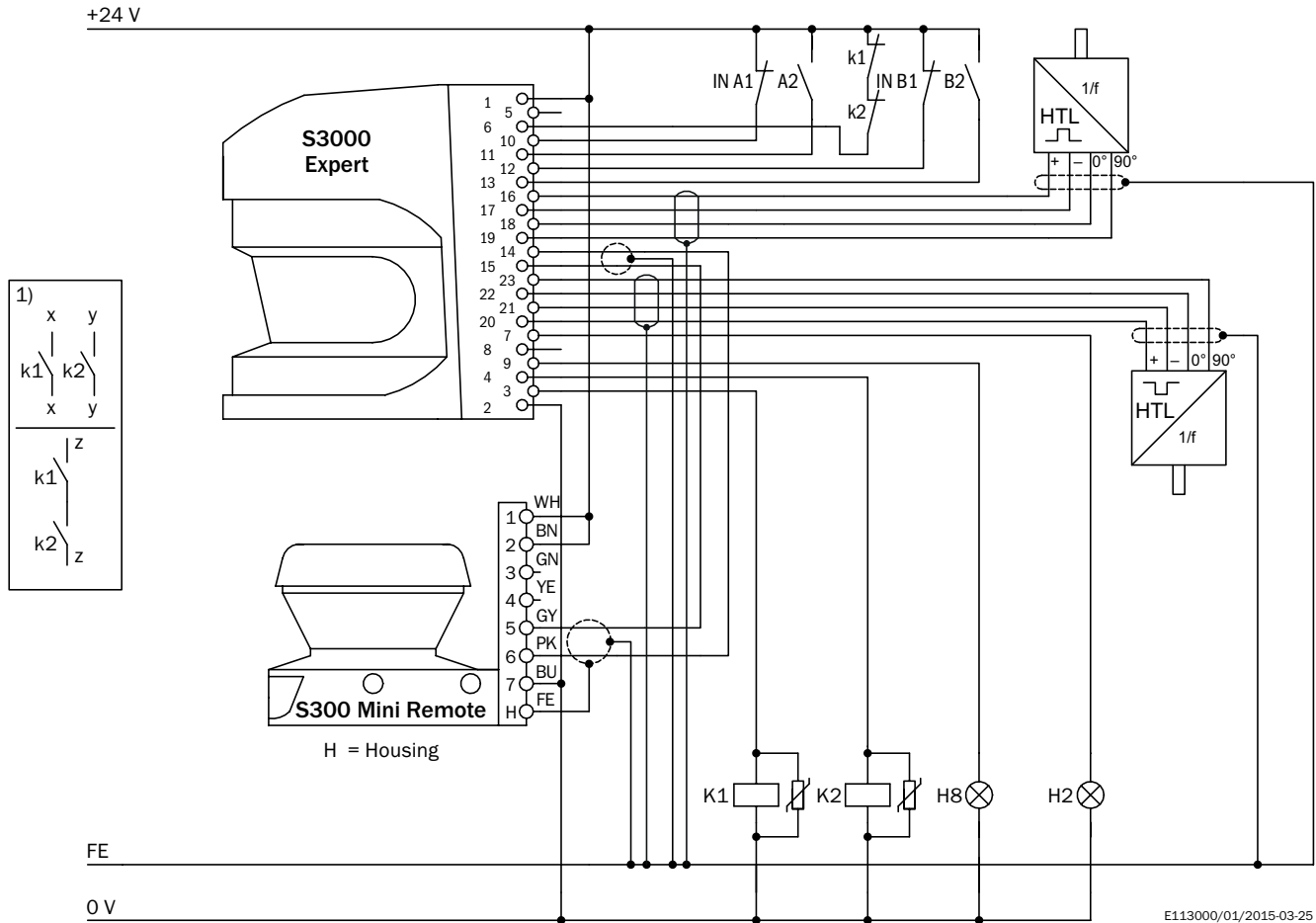
Two S300 Mini Remote

Protective field evaluation and switching via EFI using a Flexi Soft safety controller

Comments

¹⁾ Output circuits: These contacts are to be connected to the controller such that, with the output circuit open, the dangerous state is disabled. For categories 4 and 3, this integration must be dual-channel (x/y paths). Single-channel insertion in the control (z path) is only possible with a single-channel control and by taking the risk analysis into account.

Protective field switching between an S3000 Expert and an S300 Mini Remote with static and dynamic inputs



E113000/01/2015-03-25


S3000 Expert with S300 Mini Remote in an EFI system with relays/contactors

Operating mode: without restart interlock with external device monitoring

Direction of travel-dependent dynamic protective field switching using the incremental encoders C and D as well as static protective field switching using the control inputs A and B of the S3000. The protective fields affect the OSSDs on the S3000 Expert.

Comments

¹⁾ Output circuits: These contacts are to be connected to the controller such that, with the output circuit open, the dangerous state is disabled. For categories 4 and 3, this integration must be dual-channel (x/y paths). Single-channel insertion in the control (z path) is only possible with a single-channel control and by taking the risk analysis into account.

	Brief description	Type	Part no.
	1 piece, mounting bracket, adjustable lateral axis, only in conjunction with mounting kit 1a (2034324) or 1b (2034325)	Mounting kit 2	2039302
	1 piece, mounting plate, adjustable longitudinal axis, only in conjunction with mounting kit 2 (2039302)	Mounting kit 3	2039303
Plug connectors and cables			
	Head A: female connector, M12, 7-pin, straight, SICK-coded Head B: Flying leads Cable: shielded, 10 m Extension cable S300 Mini Remote	DOL-1SS2G10ME15KM3	6042340
	Head A: female connector, M12, 7-pin, straight, SICK-coded Head B: Flying leads Cable: shielded, 15 m Extension cable S300 Mini Remote	DOL-1SS2G15ME15KM3	6042341
	Head A: female connector, M12, 7-pin, straight, SICK-coded Head B: Flying leads Cable: shielded, 20 m Extension cable S300 Mini Remote	DOL-1SS2G20ME15KM3	6042342
	Head A: female connector, M12, 7-pin, straight, SICK-coded Head B: Flying leads Cable: shielded, 2.5 m Extension cable S300 Mini Remote	DOL-1SS2G2M5E15KM3	6042337
	Head A: female connector, M12, 7-pin, straight, SICK-coded Head B: Flying leads Cable: shielded, 5 m Extension cable S300 Mini Remote	DOL-1SS2G5M0E15KM3	6042338
	Head A: female connector, M12, 7-pin, straight, SICK-coded Head B: Flying leads Cable: shielded, 7.5 m Extension cable S300 Mini Remote	DOL-1SS2G7M5E15KM3	6042339
Others			
	Head A: male connector, M8, 4-pin, straight Head B: male connector, USB-A, straight Cable: PVC, unshielded, 2 m		On request
	Head A: male connector, M8, 4-pin, straight Head B: male connector, USB-A, straight Cable: PVC, unshielded, 10 m		On request

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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