

FLN-OSSD1000105 Flexi Loop

SAFE SERIES CONNECTION / SAFETY CONTROLLERS



FLN-OSSD1000105 | Flexi Loop

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Ordering information

Туре	Part no.
FLN-0SSD1000105	1061709

Other models and accessories -> www.sick.com/Flexi_Loop



Detailed technical data

Safety-related parameters	
Safety integrity level	SIL 3 (IEC 61508)
Category	Category 4 (EN ISO 13849)
Performance level	PL e (EN ISO 13849)
$\ensuremath{PFH}_{\ensuremath{D}}$ (mean probability of a dangerous failure per hour)	0.76 x 10 ⁻⁹ (EN ISO 13849)
T _M (mission time)	20 years (EN ISO 13849)
Functions	
Diagnostic and monitoring functions	
Cross-circuit	Monitoring via OSSD device
Short-circuit	Monitoring via OSSD device
Discrepancy errors	Monitoring via Flexi Loop node
Sequence errors	Monitoring via Flexi Loop node
Interfaces	
Connection usage	
Safety device connection	For safety sensor with dual-channel OSSD outputs, With standard input
Flexi Loop input	To connect to a Flexi Loop predecessor node or to connect the Flexi Loop line to the Flexi Soft safety controller.
Flexi Loop output	To connect to a Flexi Loop successor node or to terminate the Flexi Loop line with the Flexi Loop terminator.
Connection type	
Safety device connection	Female connector M12, 5-pin
Flexi Loop input	Male connector M12, 5-pin
Flexi Loop output	Female connector M12, 5-pin
Number of non-safe inputs	1
Number of non-safe outputs	0
Power supply output for external devices	✓
•	✓
Power supply output for external devices	✓
Power supply output for external devices Electrical data	✓ III (EN 61140)

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Cumple wells of M	24.000 (46.8.0000 - 20.0000)
Supply voltage V _s	24 V DC (16.8 V DC 30 V DC)
Power consumption	45 mA
OSSD inputs	
Input voltage	12,4,00, 20,4,00
	13 V DC 30 V DC -5 V DC 5 V DC
Input current	
	3.5 mA 6.2 mA
	-2.5 mA 2.5 mA
Non-safe inputs	
Switching voltage	
HIGH	13 V DC 30 V DC
LOW	0 V DC 5 V DC
Input current	≤ 6.2 mA
Power supply output for external devices	
Supply voltage	24 V DC (16.8 V DC 30 V DC)
Output current	≤ 3.9 A
Mechanical data	
Dimensions (W x H x D)	68.15 mm x 48 mm x 18 mm
Weight	28 g (± 5 %)
Ambient data	
Enclosure rating	IP65 (EN 60529) IP67 (EN 60529)
Ambient operating temperature	-25 °C +55 °C
Storage temperature	-25 °C +70 °C
Classifications	
eCl@ss 5.0	27371990
eCl@ss 5.1.4	27371990
eCl@ss 6.0	27371819
eCl@ss 6.2	27371819
eCl@ss 7.0	27371819
eCl@ss 8.0	27371819
eCl@ss 8.1	27371819
eCl@ss 9.0	27371819
eCl@ss 10.0	27371819
eCl@ss 11.0	27371819
eCl@ss 12.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449

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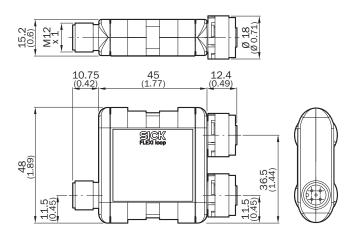
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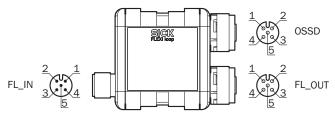
41113704

Dimensional drawing (Dimensions in mm (inch))

OSSD, EMSS



PIN assignment



The FL_IN pin assignment is only relevant for the first loop node in a safe series connection when connected to Flexi Soft. Additional Flexi Loop nodes are connected to FL_OUT using standardized cables with M12 plug connectors.

Con- nec- tion	Pin	Sig- nal	Description	Col- or-cod- ed con- nect- ing cable
FL_IN	1	VDC	24 V supply voltage	Brown
	2	DA- TA_OUT	Output to Flexi Soft input In +1	White
	3	GND	GND supply voltage	Blue
	45	AFE_OU	Safe cut-off signal, out- put to Flexi Soft input In	Black
	5	DA- TA_IN	Input from Flexi Soft output Xn	Gray
OSSD	1	VDC	24 V supply volt- age for safety device	Brown
	2	OSSD1	Input OSSD 1	White
	3	GND	GND supply volt- age for safety device	Blue

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Con- nec- tion	Pin	Sig- nal	Description	Col- or-cod- ed con- nect- ing cable
	4	OSSD2	Input OSSD 2	Black
	5	AUX_IN	Non-safe input	Gray
The colors listed apply when using pre- assembled cables (no guarantee).				

Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brac	ckets and plates		
ð	1 piece, Flexi Loop fixing clip	C-Fix bracket	2068830

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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