

FLN-EMSS0000105 Flexi Loop

SAFE SERIES CONNECTION / SAFETY CONTROLLERS



FLN-EMSS0000105 | Flexi Loop

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Ordering information

Туре	Part no.
FLN-EMSS0000105	1061711

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 Flexi Loop node
Short-circuit	Monitoring via Flexi Loop node
Discrepancy errors	Monitoring via Flexi Loop node
Sequence errors	Monitoring via Flexi Loop node
Interfaces	
Connection usage	
Safety device connection	For dual-channel equivalent electro-mechanical safety switch (EMSS)
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	0
Number of non-safe outputs	0

Electrical data

Operating data		
Protection class	III (EN 61140)	
Type of supply voltage	PELV or SELV	
Supply voltage V_s	24 V DC (16.8 V DC 30 V DC)	

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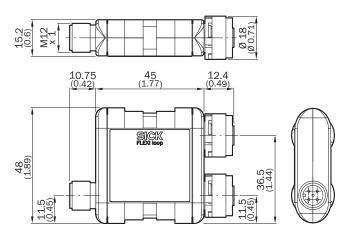
Power consumption	55 mA
EMSS interface	
Test pulse interval	40 ms
Test pulse width	12 ms
Test pulse current via the switch contacts	3 mA 6.2 mA
Mechanical data	
Dimensions (W x H x D)	68.15 mm x 48 mm x 18 mm
Weight	28 g (± 5 %)
Ambient data	
Enclosure rating	IP65 (EN 60529) IP67 (EN 60529)
Ambient operating temperature	-25 °C +55 °C
Storage temperature	-25 °C +70 °C
Classifications	
ECLASS 5.0	27371990
ECLASS 5.1.4	27371990
ECLASS 6.0	27371819
ECLASS 6.2	27371819
ECLASS 7.0	27371819
ECLASS 8.0	27371819
ECLASS 8.1	27371819
ECLASS 9.0	27371819
ECLASS 10.0	27371819
ECLASS 11.0	27371819
ECLASS 12.0	27371819
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	41113704

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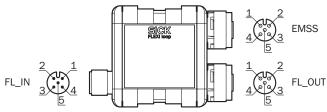
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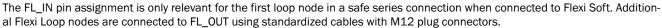
Dimensional drawing (Dimensions in mm (inch))

OSSD, EMSS



PIN assignment





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	SAFE_OU	Safe cut-off signal, out- put to Flexi Soft input In	Black
	5	DA- TA_IN	Input from Flexi Soft output Xn	Gray
EMSS	18	EMSS1_#	Switching contact 1, connection A	Brown
	28	EMSS1_E	Switching contact 1, connection B	White
	3 8	EMSS2_#	Switching contact 2, connection A	Blue
	4 8	EMSS2_E	Switching contact 2, connection B	Black

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Con- nec- tion	Pin	Sig- nal	Description	Col- or-cod- ed con- nect- ing cable
	5 E	EMSS2_A	Switching contact 2, connection A	Gray
EMSS pin 3 and EMSS pin 5 can be used as alternatives.				tives.
	٦		s listed apply when using pre- bled cables (no guarantee).	

Recommended accessories

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

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

SICK AT A GLANCE

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."

WORLDWIDE PRESENCE:

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Online data sheet

