



FLX3-GEPR100

Flexi Net

SAFETY CONTROLLERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
FLX3-GEPR100	1112386

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



Detailed technical data

Features

Module	Safety gateway
Description	The gateway is an extension module of the safety controller. The gateway module enables a safety controller to send data to a network for control and diagnostic purposes, and to receive data from the network.
Fieldbus, industrial network	EFI-pro, EtherNet/IP™ CIP Safety™, TCP/IP-Sockets
Configuration software	Safety Designer
Configuration interface	Ethernet TCP/IP TFT display
Items supplied	Gateway Safety instruction Operating instructions for download Safety Designer configuration software for download

Safety-related parameters

Safety integrity level	SIL 3 (IEC 61508, IEC 62061)
Category	Category 4 (ISO 13849)
Performance level	PL e (ISO 13849)
PFH_D (mean probability of a dangerous failure per hour)	2×10^{-9}
T_M (mission time)	20 years (ISO 13849-1)

Interfaces

Overview	TFT display 2 × Ethernet (RJ45 socket) for EFI pro, EtherNet/IP™ CIP Safety™, TCP/IP sockets Backplane bus (proprietary interface on the side of the module)
Fieldbus, industrial network	EFI-pro, EtherNet/IP™ CIP Safety™, TCP/IP-Sockets
Connection type	2 × RJ45 socket
Network cable requirements	Shielded, twisted Ethernet cable type 100Base-TX (Cat 5 STP or higher). Maximum length 100 m according to EN 50173. Use of wire pairs 1/2 and 3/6.

Display elements	TFT display
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Electronics

Protection class	III (EN 61140)
Interference resistance	EN 61000-6-2
Interference emission	EN 61000-6-4
Voltage supply	The voltage supply of the extension modules is maintained via the backplane bus
Power loss	≤ 4.2 W
Current consumption at nominal voltage	175 mA

Mechanics

Dimensions (W x H x D)	18 mm x 124.7 mm x 85.5 mm
Contamination rating	2 (IEC 61010-1)
Control device type	Open device (IEC 61010-2-201)
Weight	128 g (± 5 %)
Mounting	Mounting on a 35 mm × 7.5 mm mounting rail in accordance with IEC 60715

Ambient data

Enclosure rating	IP20 (IEC 60529)
Ambient operating temperature	–25 °C ... +55 °C ¹⁾
Storage temperature	–25 °C ... +70 °C
Air humidity	≤ 95 %, Non-condensing
Vibration resistance	1 g, 5 Hz ... 200 Hz (EN 60068-2-6)
Shock resistance	15 g, 11 ms (EN 60068-2-27)

¹⁾ At altitudes up to 2,000 m above sea level For higher areas of application up to max. 4,000 m above sea level, see the operating instructions.

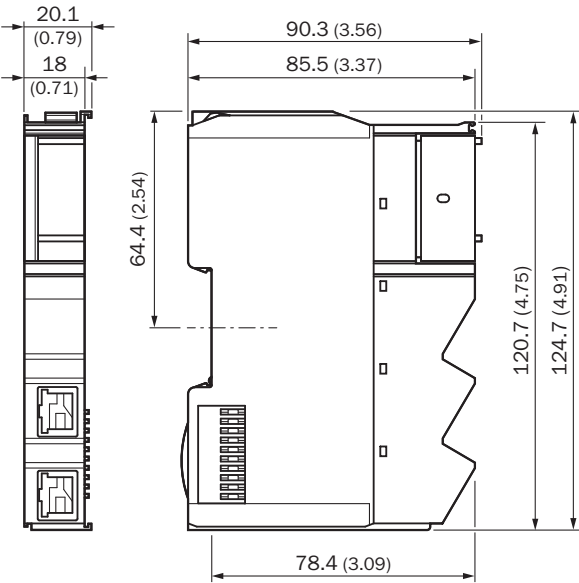
Classifications

ECLASS 5.0	27243001
ECLASS 5.1.4	27243101
ECLASS 6.0	27243101
ECLASS 6.2	27243101
ECLASS 7.0	27243101
ECLASS 8.0	27243101
ECLASS 8.1	27243101
ECLASS 9.0	27243101
ECLASS 10.0	27243101
ECLASS 11.0	27243101
ECLASS 12.0	27243101
ETIM 5.0	EC001449
ETIM 6.0	EC001449
ETIM 7.0	EC001449
ETIM 8.0	EC001449
UNSPSC 16.0901	32151705

Certificates

EU declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
EC-Type-Examination approval	✓
EC-Type-Examination approval (Machinery Directive)	✓
EC-Type-Examination approval (Machinery Regulation)	✓
Third party certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

Dimensional drawing



Dimensions in mm (inch)

Recommended accessories

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	Brief description	Type	part no.
Safety relays			
	• Applications: Output expansion module for OSSDs • Compatible sensor types: Safety sensors with OSSDs • Connection type: Front connector with spring terminals • Restart interlock: no • External device monitoring (EDM): Via path • Outputs: 2 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe) • Housing width: 18 mm	RLY3-OSSD100	1085343
	• Applications: Output expansion module for OSSDs • Compatible sensor types: Safety sensors with OSSDs • Connection type: Front connector with spring terminals • Restart interlock: no • External device monitoring (EDM): Via path • Outputs: 4 enabling current paths (safe), 1 feedback current path (for use as external device monitoring, not safe), 1 signaling current path (not safe) • Housing width: 28 mm	RLY3-OSSD400	1099971

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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