



SIM1000-OP0B100

SIM10xx

SENSOR INTEGRATION MACHINE

SICK
Sensor Intelligence.

Enclosure rating	IP20 as per EN 60529:1991-10 + A1:2000-02 + A2:2013-10
Protection class	III (EN 61140:2016-05)
Housing material	Polycarbonate
Housing color	Light gray (RAL 7035)
Weight	430 g, with spring terminals
Dimensions (L x W x H)	67.5 mm x 96.5 mm x 120.6 mm

Interfaces

Ethernet	✓, TCP/IP, FTP, OPC UA, MQTT
Remark	Not yet compatible with the GigE machine vision standard. Connecting the picoCam2 and midiCam2 is therefore not yet possible.
Function	Data output, Configuration, firmware update
Data transmission rate	2 x 10/100/1.000 Mbit/s, 2 x 10/100 Mbit/s
IO-Link	✓, IO-Link V1.1
Function	IO-Link Master
Data transmission rate	≤ 230 kBaud
Serial	✓, RS-422, RS-485
Remark	Can also be configured as an encoder interface, max. frequency 2 MHz
Data transmission rate	2 MBaud
CAN	✓
Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server), termination resistor can be controlled using app
Data transmission rate	20 kbit/s ... 1 Mbit/s
USB	✓, USB 2.0
Function	Configuration, diagnosis, firmware update
Operator interfaces	Web server (GUI), SICK AppStudio (programming), SICK AppManager (app installation, firmware update)
Data storage and retrieval	Image and data logging via optional microSD memory card, internal RAM and external FTP
Memory card(s)	Industry-grade microSD memory card (flash card), 1 GB
Digital inputs/outputs	
IY1	Digital input (Max. frequency: 30 kHz)
IY2	Digital inputs/outputs (can be configured) (Max. frequency: 30 kHz)
Optical indicators	7 red/green (front film status displays) 4 Green (front film status displays) 4 orange/green (ethernet status displays)

Ambient data

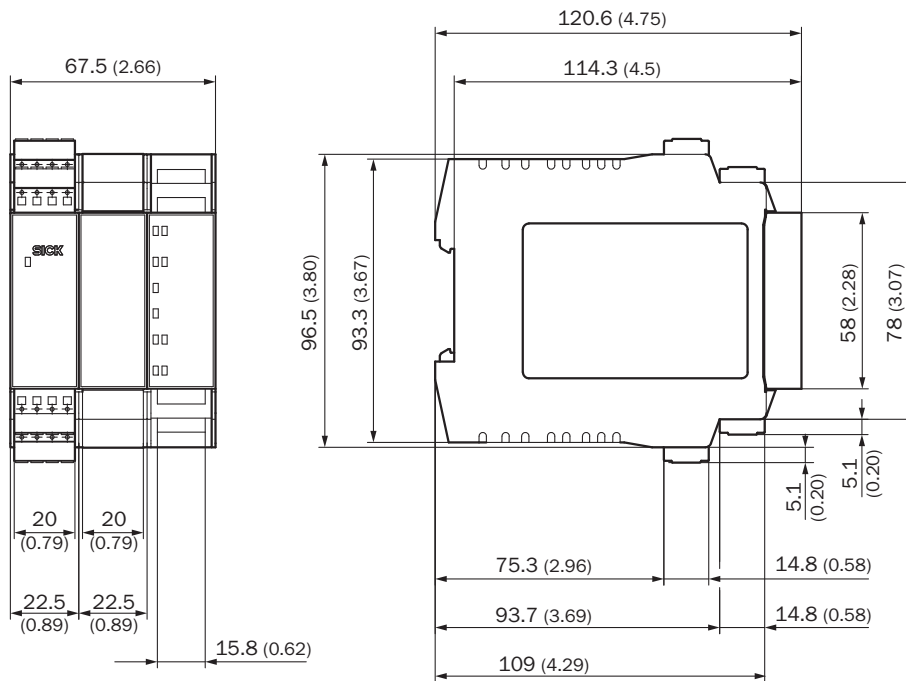
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005-08 EN 61000-6-4:2007+A1:2011
Shock load	EN 60068-2-27:2009-05 EN 61131-2:2007-09
Vibration resistance	EN 60068-2-6:2008-02 EN 61131-2:2007-09
Ambient operating temperature	-25 °C ... +55 °C ¹⁾
Ambient temperature, storage	-25 °C ... +70 °C ¹⁾

¹⁾ Permissible relative air humidity: 0 % ... 90 % (non-condensing).

Classifications

eCl@ss 5.0	27242208
eCl@ss 5.1.4	27242608
eCl@ss 6.0	27242608
eCl@ss 6.2	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 8.1	27242608
eCl@ss 9.0	27242608
eCl@ss 10.0	27242608
eCl@ss 12.0	27242608
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604
ETIM 8.0	EC001604
UNSPSC 16.0901	32151705

Dimensional drawing (Dimensions in mm (inch))



Overview

SICK AppSpace



Recommended services

Additional services → www.sick.com/SIM10xx

	Type	Part no.
Function Block Factory		
<ul style="list-style-type: none"> Description: The Function Block Factory supports common programmable logic controllers (PLCs) from various manufacturers, such as Siemens, Beckhoff, Rockwell Automation and B&R. More information on the FBF can be found <a _blank"="" href="https://fbf.cloud.sick.com target=">here. Note: You can configure your function block at <a _blank"="" href="https://fbf.cloud.sick.com target=">Function Block Factory. As a login please use your SICK ID. 	Function Block Factory	On request

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:

Contacts and other locations –www.sick.com