



SIM1012-0AXG200 3D Belt Pick SIM10xx

EDGE COMPUTING DEVICES





Ordering information

Туре	part no.
SIM1012-0AXG200 3D Belt Pick	1130785

Other models and accessories → www.sick.com/SIM10xx



Detailed technical data

Features

Product category	Programmable devices
Task	Data recording, evaluation, and archiving
Supported products	Ruler3020 Ruler3060 Ruler3120
SensorApp	3D Belt Pick SensorApp
License included	3D Belt Pick Licence
Processor	Dual-core ARM Cortex-A9 CPU with NEON accelerator
Random Access Memory	1 GB
Flash memory	256 MB in total, 30 MB of which available for applications
Application development kit	SICK AppStudio Can be programmed within the SICK AppSpace environment
Toolkit	SICK algorithm API
Further functions	FPGA for I/O handling

Mechanics/electronics

Connections	
Power	1 (M12, 4-pin male connector, T-coded)
Incremental	1 (M12, 8-pin female connector, A-coded)
Serial	1 (M12, 8-pin female connector, A-coded)
CAN	1 (M12, 5-pin female connector, A-coded)
S1-S6, IO-Link Master	6 (M12, 5-pin female connector, A-coded)
Ethernet	2 (M12, 8-pin female connector, X-coded)
Supply voltage	24 V DC, \pm 10 $\%$ ¹⁾
Operating current	To be protected with 12 A
Power consumption	≤ 15 W, without connected sensor

 $^{^{1)}\,\}mathrm{SELV}$ as per EN 60950-1.

²⁾ With functional earth.

Power output	≤ 270 W, total, all connections
Output current	
Serial voltage supply	≤1A
Incremental voltage supply	≤ 0.5 A
CAN voltage supply	≤ 3.2 A
\$1-\$6	≤ 100 mA
S1-S6 voltage supply	≤1A
Enclosure rating	IP65
Protection class	III ²⁾
Housing material	Aluminum
Housing color	Light blue (RAL 5012), gray-white front film (RAL 9002)
Weight	876 g, including connection plugs
Dimensions (L x W x H)	86.5 mm x 45.8 mm x 265.5 mm

¹⁾ SELV as per EN 60950-1.

Interfaces

✓, TCP/IP, FTP, OPC UA, MQTT
Can also be configured as an RS-422 interface, max. frequency 2 MHz
Data output, Configuration, firmware update
20 kbit/s 230 kBaud, 2 x 10/100/1.000 Mbit/s
✓ , IO-Link V1.1, RS-422, RS-485
Can also be configured as an encoder interface, max. frequency 2 MHz
IO-Link Master, termination resistor can be controlled using app, firmware update
≤ 1 Mbit/s, RS-232: 115,2 kBaud, RS-422/RS-485: 2 MBaud
√ , RS-232
Can also be configured as an encoder interface, max. frequency 2 MHz
SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server), diagnosis
≤ 230 kBaud, RS-232: 115,2 kBaud, RS-422/RS-485: 2 MBaud
√ , USB 2.0
Configuration
√ , USB 2.0
SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
✓
Configuration
Web server (GUI), SICK AppStudio (programming), SICK AppManager (app installation, firmware update)
Image and data logging via optional microSD memory card, internal RAM and external FTP
Industry-grade microSD memory card (flash card), max. 16 GB
In each case 1 input, in each case 1 input/output (can be configured) (Max. frequency: 30 kHz)
7 red/green (status displays) 2 Green (Link displays) 11 red/green (status displays for power, CAN, sensor, incremental, serial)

²⁾ With functional earth.

1	blue) (C	AN

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
Vibration resistance	EN 60068-2-6:2008-02
Ambient operating temperature	0 °C +50 °C ¹⁾
Ambient temperature, storage	-20 °C +70 °C ¹⁾

 $^{^{1)}}$ Permissible relative humidity: 0% ... 90% (non-condensing).

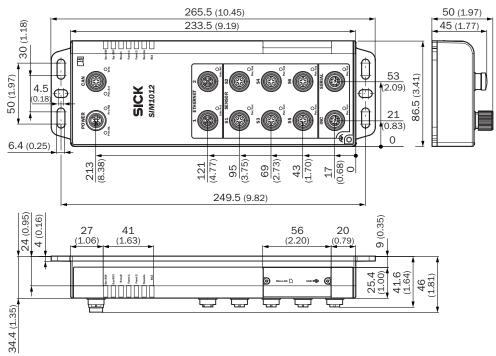
Certificates

EU declaration of conformity	1
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓

Classifications

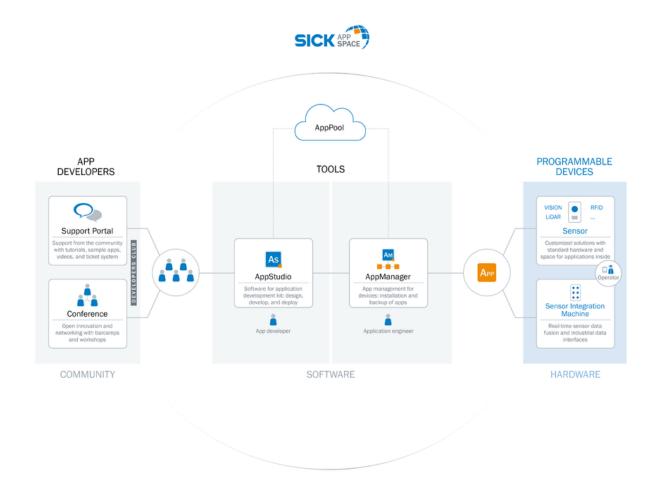
ECLASS 5.0	27242208
ECLASS 5.1.4	27242608
ECLASS 6.0	27242608
ECLASS 6.2	27242608
ECLASS 7.0	27242608
ECLASS 8.0	27242608
ECLASS 8.1	27242608
ECLASS 9.0	27242608
ECLASS 10.0	27242608
ECLASS 12.0	27242608
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604
ETIM 8.0	EC001604
UNSPSC 16.0901	32151705

Dimensional drawing



Dimensions in mm (inch)

Overview SICK AppSpace



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

