



# SIM1012 PACS

SYSTEM SOLUTIONS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
SIM1012 PACS	1131873

Other models and accessories → [www.sick.com/](http://www.sick.com/)



## Detailed technical data

### Features

<b>Memory card (optional)</b>	Industry-grade microSD memory card (flash card), max. 32 GB, optional
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### Mechanics/electronics

<b>Control elements</b>	1 selector switch (under the servicing panel) 2 S1 and S2 switches for GND ISO/GND
<b>Electrical connection</b>	
Power	X1, spring terminal
IO-Link Master	X2, spring terminal
Output	X3, spring terminal
Input A	X4, spring terminal
Input B	X5, spring terminal
Serial A	X6, spring terminal
Serial B	X7, spring terminal
CAN	X8, spring terminal
Ethernet	X9-X12, RJ45
Fieldbus	X13-X14, RJ45
USB	1 x Micro-B
<b>Operating voltage</b>	24 V DC, ± 20 %
<b>Power consumption</b>	Typ. 15 W (At full CPU load, no sensors connected)
<b>Power output</b>	100 W (total, all connections)
<b>Output current</b>	
X2 switching output	100 mA (per output)
X3 switching output	100 mA (per output)
X2 voltage supply	≤ 700 mA
X4, X5 voltage supply	700 mA (total)
<b>Housing material</b>	Aluminum die cast
<b>Housing color</b>	Metallic

<b>Protection class</b>	III
<b>Weight</b>	1,630 g
<b>Dimensions (L x W x H)</b>	225.5 mm x 132.5 mm x 83 mm

### Interfaces

<b>Ethernet</b>		✓ (4) , TCP/IP, FTP, OPC UA, MQTT
	Type of fieldbus integration	GigE machine vision/GenICAM
	Remark	X9-X12
	Function	Data output, Configuration, firmware update, image transmission
	Data transmission rate	10/100/1,000/2,500 Mbit/s
<b>PROFINET</b>		✓ (2)
	Remark	X13-X14
	Function	Dual port Ethernet-based fieldbus
	Data transmission rate	10/100 MBit/s
<b>EtherNet/IP™</b>		✓ (2)
	Remark	X13-X14
	Function	Dual port Ethernet-based fieldbus
	Data transmission rate	10/100 MBit/s
<b>EtherCAT®</b>		✓ (2)
	Remark	X13-X14, in preparation
	Function	Dual port Ethernet-based fieldbus
	Data transmission rate	10/100 MBit/s
<b>IO-Link</b>		✓ (2)
	Remark	X2
	Function	IO-Link Master 1.1
	Data transmission rate	≤ 230 kBaud
<b>Serial</b>		✓ (4) , RS-232, RS-422, RS-485
	Remark	X6-X7
	Function	Serial interface
	Data transmission rate	RS-232: 115,2 kBaud, RS-422/RS-485: 2 MBaud
<b>CAN</b>		✓
	Remark	X8
	Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server) with activatable termination resistor
	Data transmission rate	20 kbit/s ... 1 Mbit/s
<b>USB</b>		✓ , USB 2.0
	Function	For configuration, diagnosis, firmware update
<b>Digital inputs/outputs</b>		
	IO-Link Master	2 inputs/outputs (configurable incl. IO-Link)
	Output	4 outputs (Not isolated)
	Input A/B	4 inputs each (insulated)

### Ambient data

<b>Electrical safety</b>	EN 61010
<b>Enclosure rating</b>	IP20
<b>Ambient operating temperature</b>	0 °C ... +60 °C <sup>1) 2)</sup>
<b>Ambient temperature, storage</b>	-20 °C ... +70 °C <sup>1)</sup>

<sup>1)</sup> Permissible relative humidity: 0% ... 90% (non-condensing).

<sup>2)</sup> While taking account of the mounting requirements described, see operating instructions. In the event of overtemperature, the device protects itself by resetting and then restarting.

### Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>China RoHS</b>	✓

## 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](http://www.sick.com)