SICK.COM



DATA SHEET

SIG200-0A0412200

SIG200
Network devices

SICK Sensor Intelligence



NETWORK DEVICES

SIG200-0A0412200

ORDERING INFORMATION

Type	part no.
SIG200-0A0412200	1089794

Further device versions and accessories at www.sick.com/SIG200

DETAILED TECHNICAL DATA

FEATURES

Product category	IO-Link Master
Supported products	IO-Link Devices Binary actuators Binary switching sensors
Further functions	Web server integrated USB connection for easy configuration of the SIG200 Sensor Integration Gateway with SOPAS ET, the engineering tool from SICK Logic editor is available for easy configuration of logic functions
Items supplied	SIG200-0A0412200, 4x blind plugs (M12) on port S2, S3, S4, P2, 1x blind plug (M8) on port CONFIG, Marking labels, quickstart

MECHANICS/ELECTRONICS

Connections	
IO-Link	4 x M12, 5-pin female connector, A-coded
Power	1 x M12, 4-pin plug, A-coded
CONFIG	1 x M8, 4-pin female connector, USB 2.0 (USB-A)
Ethernet	2 x M12, 4-pin female connector, D-coded
Power voltage supply	
Supply voltage	10 V DC ... 30 V DC [1]
Current consumption	≤ 175 mA, At supply voltage 24 V DC [2] ≤ 3,000 mA [3]
Optical indicators	4 LED green (To the IO-Link ports, Pin4 (C/DI/DO)) 4 LED yellow (To the IO-Link ports, Pin2 (DI)) 2 LED green (To the Ethernet ports) 1 LED green (For the Power Port)

[1] 10 - 30 V DC without IO-Link, 18 - 30 V DC with IO-Link.

[2] Without sensors, outputs switched off.

[3] The sum of all outputs, including the digital outputs, must not exceed the maximum current consumption of the device. The current consumption must be limited.

[4] Pin 4 configured as digital output. The maximum output current does not depend on the voltage supply at pin 1 of S1-S4.

	2 LED dual-color (for bus error and system error communication)
Input/output characteristics S1-S4 pin 1 voltage supply, S1-S4 pin 4 output current, Power Port pin 4 output voltage HIGH, S1-S4 pin 2 input voltage, S1-S4 pin 4 input voltage	≤ 500 mA, ≤ 200 mA ($V_H \geq V_{US}$ - 3 V, Type 3 IEC 61131-2, Type 1 IEC 61131-2, Type 3 IEC 61131-2, Type 1 IEC 61131-2) [4) 4)]
Enclosure rating	IP67
Protection class	III
Housing material	Zinc
Housing color	Light blue/Black
Weight	520 g
Dimensions (L x W x H)	213.9 mm x 57 mm x 38.3 mm
UL File No.	E497722

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[4)] Pin 4 configured as digital output. The maximum output current does not depend on the voltage supply at pin 1 of S1-S4.

INTERFACES

Communication interface	IO-Link, USB, Ethernet, PROFINET, REST API
Logic editor	✓
Web server	✓
IO-Link Master	
Function	The SIG200 Sensor Integration Gateway is an IO-Link master with 4 configurable ports to which IO-Link device as well as binary switching sensors and actuators can be connected. The gateway data is made available to a PLC or cloud application via the REST API. SIG200 can also be operated as a standalone system by directly configuring simple logic functions across several connected devices via the SOPAS ET user interface.
IO-Link version	V1.1, V1.0
Port Class	A
Number of IO-Link ports	4
Transmission type	COM1, COM2, COM3
Operator interfaces	SOPAS ET, the engineering tool for configuration via USB, Additionally, the SIG200 can be configured via the integrated webserver. Default IP adress: 192.168.0.1
MAC address	See product label
Number of inputs	Max. 8 x PNP, type 1 or 4 x IO-Link
Number of outputs	Max. 4 x PNP
Max. Output frequency	50 Hz
Inputs/outputs	
S1-S4	4 configurable ports Pin4 can be used in one of the available port modes: IO-Link, digital input or digital output. An additional digital input signal can be connected using Pin2. (SOPAS ET can be downloaded for free from www.sick.com)
LINK/ACT 1 & 2	Two Ethernet ports are provided for the network connection (SOPAS ET can be downloaded for free from www.sick.com)
CONFIG	Port for configuration via USB with SOPAS ET
Conformities	Conformance Class B
Network load class	III
Initialization time after switch on	60s (plus additional time for IODD installation)

AMBIENT DATA

Ambient operating temperature	-40 °C ... +55 °C [1)]
Ambient temperature, storage	-40 °C ... +75 °C [1)]
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005-08

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

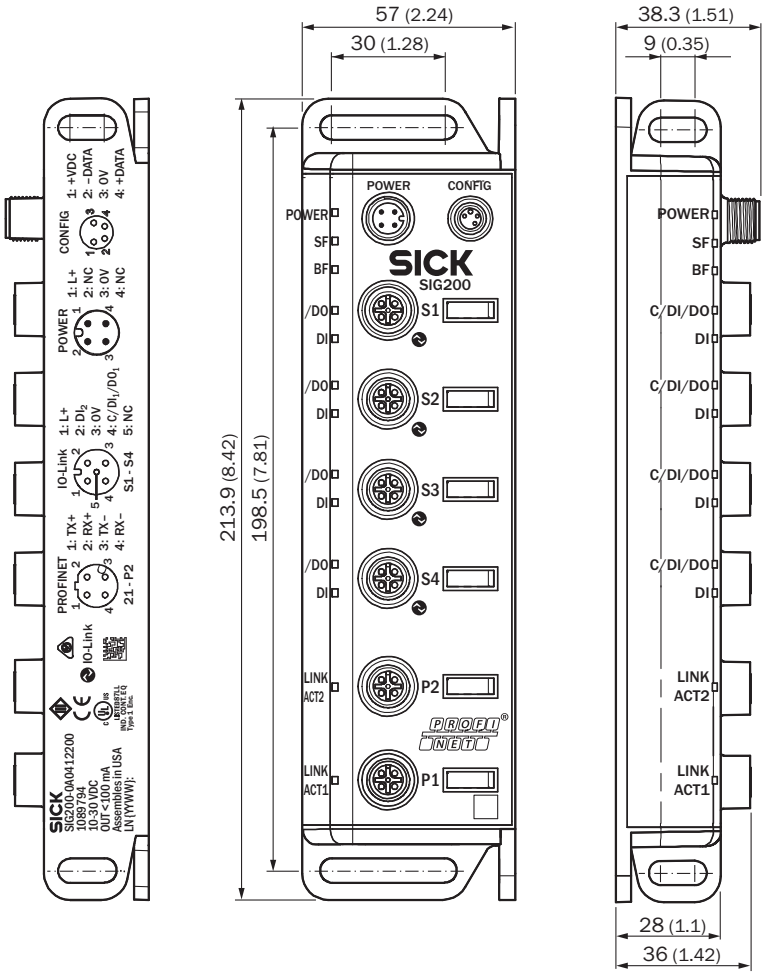
	EN 61000-6-3:2007-01
Shock load	EN 60068-2-6

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

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
IO-Link certificate	✓
Profinet certificate	✓

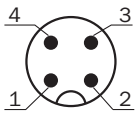
DIMENSIONAL DRAWING



Dimensions in mm (inch)

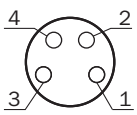
CONNECTION DIAGRAM CD-430

POWER/C



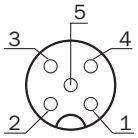
BN 1 + (L+)
WH 2 not connected
BU 3 - (M)
BK 4 not connected

CONFIG



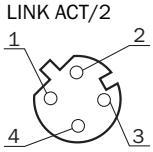
1 + (L+)
2 - Data
3 + Data
4 - (M)

S1-S4



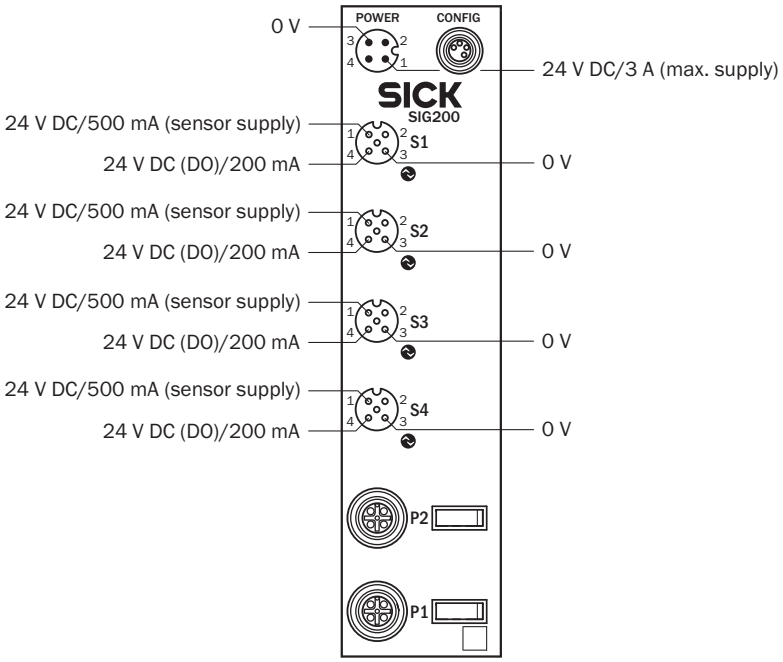
BN 1 + (L+)
WH 2 DI
BU 3 - (M)
BK 4 C/Q (IO-Link)/DI/DO
5 not connected

LINK ACT/1 +
LINK ACT/2

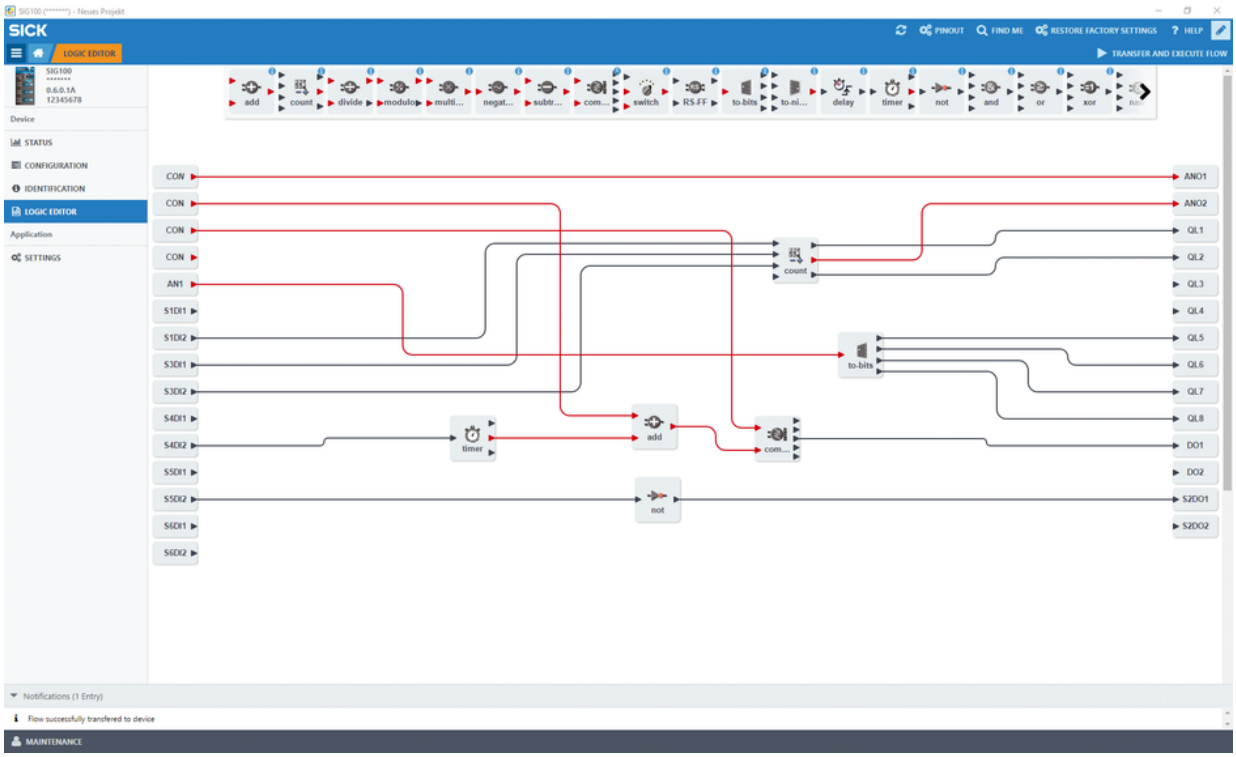


WH/OG 1 + Tx
WH/GN 2 + Rx
OG 3 - Tx
GN 4 - Rx

PIN ASSIGNMENT



ADJUSTMENT POSSIBLE LOGIC EDITOR



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1089794

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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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