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DATA SHEET

SIG350-0005AP100

SIG350
Network devices

SICK Sensor Intelligence



NETWORK DEVICES

SIG350-0005AP100

ORDERING INFORMATION

Type	part no.
SIG350-0005AP100	6076923

Further device versions and accessories at www.sick.com/SIG350

DETAILED TECHNICAL DATA

FEATURES

Product category	IO-Link Master
Supported products	IO-Link Devices Binary switching sensors Binary actuators
Further functions	Web server integrated IIoT interface available (dual talk)
Items supplied	SIG350-0005AP100, Marking labels, quickstart

MECHANICS/ELECTRONICS

Connections	
IO-Link	8 x M12, 5-pin female connector, A-coded
Power	1 x M12, 5-pin male connector, L-coded 1 x M12, 5-pin female connector, L-coded
Ethernet	2 x M12, 4-pin female connector, D-coded
Power voltage supply	
Supply voltage	18 V DC ... 30 V DC [1]
Current carrying capacity (PWR1, PWR2) max.	≤ 16 A, U_S [2] ≤ 16 A, U_A [2]
Current consumption	≤ 180 mA [3]
Voltage supply U_S (sensors)	
Total current (S1 ... S8)	≤ 10 A [2]
Voltage supply (pin 1)	2 A
Output current (DO) (pin 2 + pin 4)	2 A

[1] Each for U_S and U_A, typ. supply voltage 24 V DC.

[2] ≤ +40 °C (see "Derating" information in operating instructions).

[3] Without load, sensors and outputs switched off.

[4] When using a SELV or PELV power supply unit.

Current carrying capacity per port max.	4 A
Voltage supply U_A (actuators)	
Total current (S1 ... S8)	≤ 10 A [2]
Voltage supply (pin 2)	2 A
Current carrying capacity per port max.	4 A
Digital inputs	
Number	16, configurable
Input characteristics	EN 61131-2 type 1 and type 3
Type	PNP
Filter time	0 ms ... 15 ms
Delay time at signal change	2 ms ... 5 ms
Circuit protection	Short-circuit protected (MOSFET with current measurement)
Digital outputs	
Number	16, configurable
Type	PNP
Switching frequency	≤ 50 Hz
Circuit protection	Short-circuit protected (MOSFET with current measurement)
Optical indicators	8 LED green/yellow/red (Communication pin 4) 8 LED yellow/red (Communication pin 2) 1 LED green/red (device status) 1 LED green/yellow (Network status) 1 LED green (PLC operational status) 1 LED red (PLC configuration) 3 LED green (PLC configuration) 2 LED green/red (power supply)
Enclosure rating	IP67 (In fastened condition)
Protection class	III [4]
Contamination rating	2
Housing material	Plastic (Valox 553)
Housing color	Dark gray
Weight	486 g
Dimensions (L x W x H)	225 mm x 63 mm x 37.4 mm
UL File No.	E238799

[1] Each for U_S and U_A, typ. supply voltage 24 V DC.

[2] ≤ +40 °C (see “Derating” information in operating instructions).

[3] Without load, sensors and outputs switched off.

[4] When using a SELV or PELV power supply unit.

COMMUNICATION INTERFACE

IO-Link	✓
Remark	V1.1
Number of ports	8
Port Class	A/B [1]
Data transmission rate	COM1, COM2, COM3
Additional features	Data Storage
Ethernet	✓
Remark	TCP/IP
EtherNet/IP™	✓
Remark	TCP/IP
Number of ports	2
Data transmission rate	10/100 MBit/s
Additional features	Quick connect
Conformity class	C
Cycle time	≥ 1 ms
Addressing	BOOTP, DHCP, rotary switch

[1] Freely configurable per port, no galvanic separation between U_S and U_A.

Factory setting	Static IP address
REST API	✓
Specification	JSON integration for IO-Link version (V1.0.0)
MQTT	✓
Specification	JSON integration for IO-Link version (V1.0.0)
OPC UA	✓
Specification	IO-Link Companion Specification Version (V1.0)
Operator interfaces	Web server integrated

[1] Freely configurable per port, no galvanic separation between U_S and U_A.

AMBIENT DATA

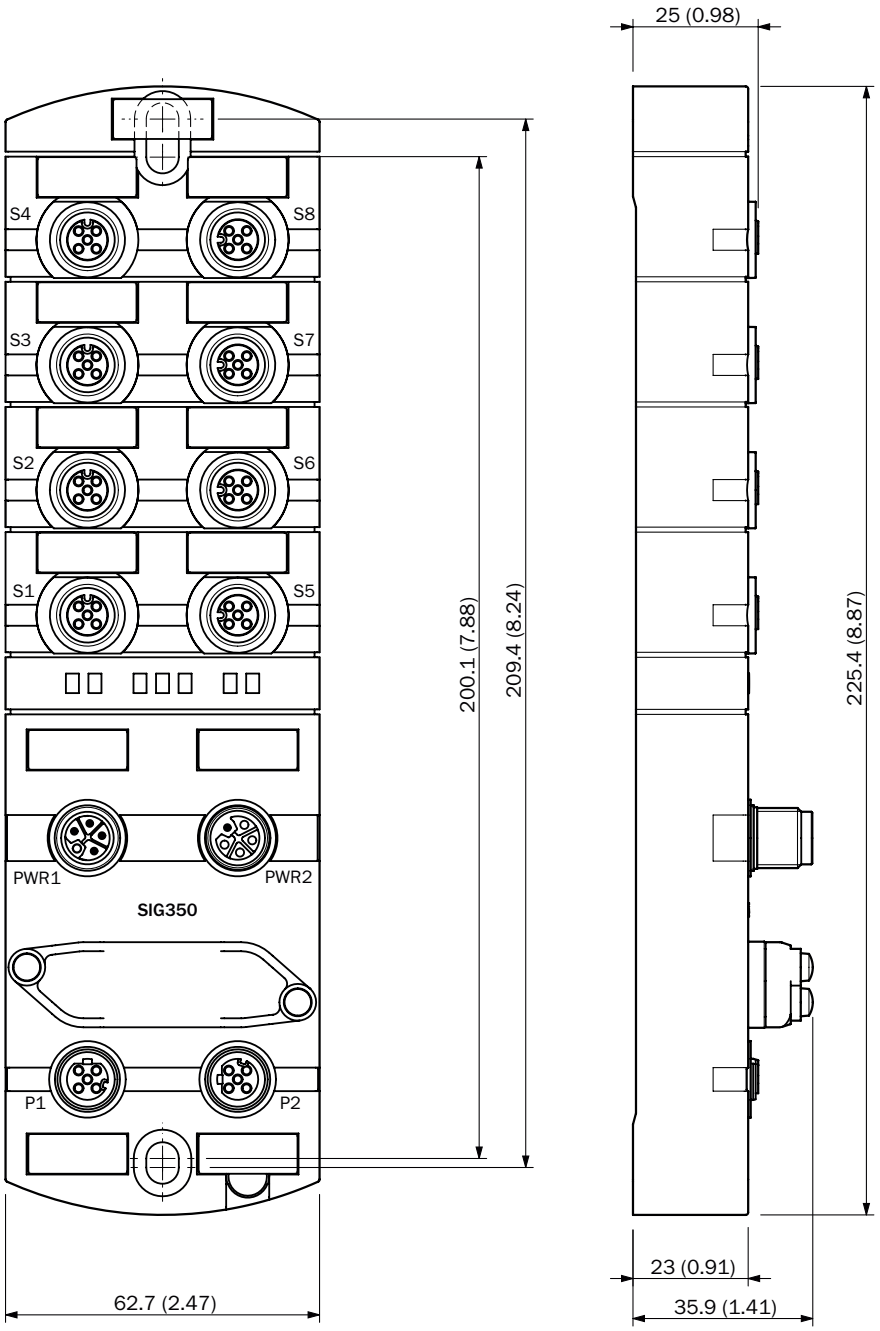
Ambient operating temperature	–25 °C ... +70 °C [1]
Ambient temperature, storage	–40 °C ... +80 °C [1]
Electromagnetic compatibility (EMC)	EN 61000-6-2:2016 / EN 61000-6-4:2020
Shock load	EN 60068-2-27

[1] Permissible relative humidity 0% ... 95% (non-condensing).

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

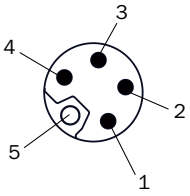
DIMENSIONAL DRAWING



Dimensions in mm (inch)

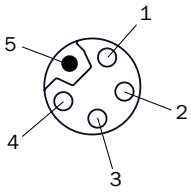
CONNECTION DIAGRAM CD-535

Power PWR1



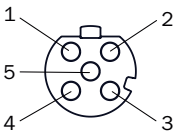
BN	1	+ (L+) U_S
WH	2	- (M)
BU	3	- (M)
BK	4	+ (L+) U_A
GY	5	FE

Power PWR2



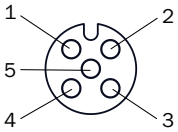
BN	1	+ (L+) U_S
WH	2	- (M)
BU	3	- (M)
BK	4	+ (L+) U_A
GY	5	FE

Ports P1 / P2



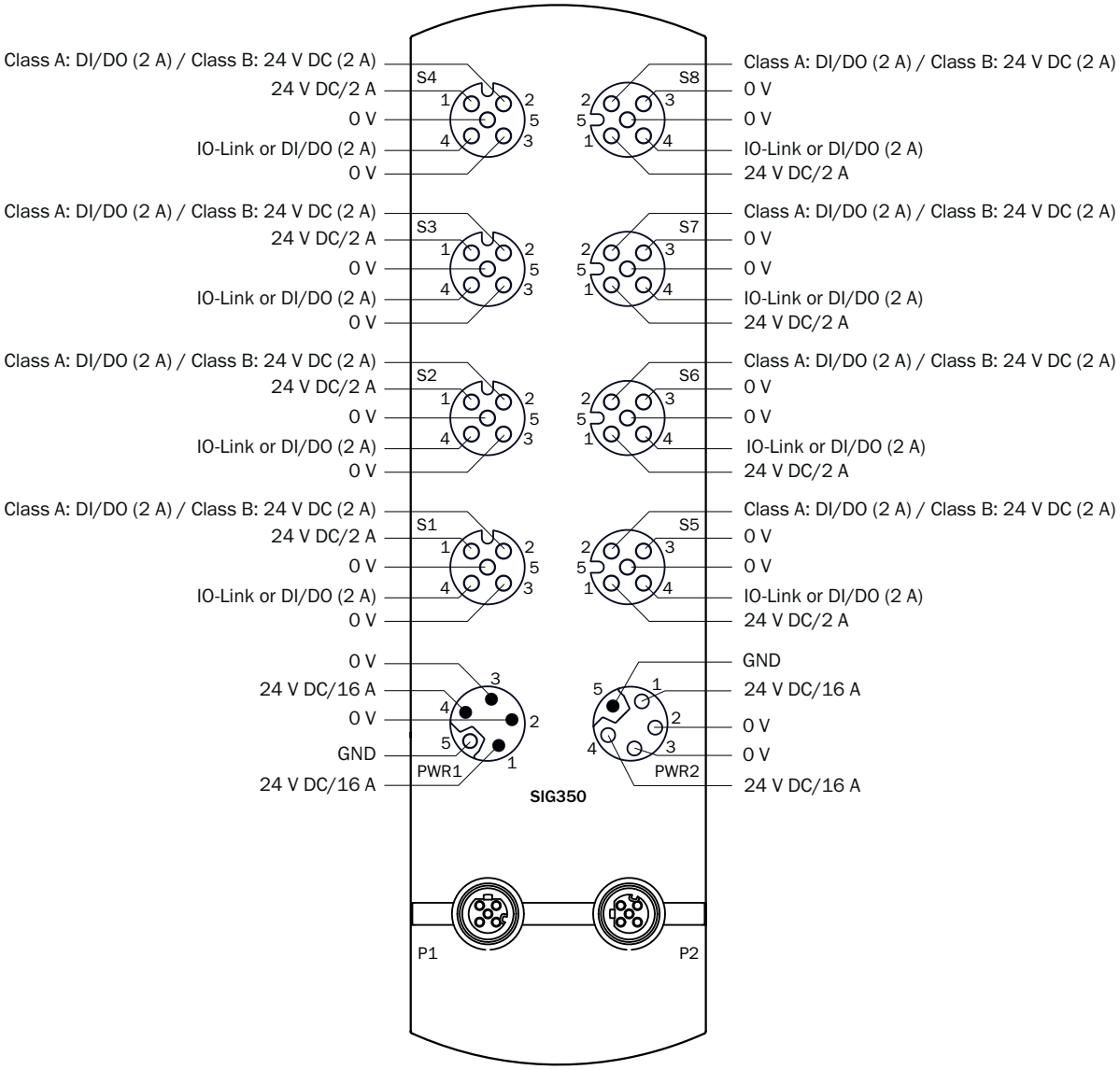
YE	1	Tx +
WH	2	Rx +
OG	3	Tx -
BU	4	Rx -
	5	not connected

S1 ... S8



BN	1	+ (L+)
WH	2	DI/DO
BU	3	- (M)
BK	4	IO-Link or DI/DO
GY	5	- (M)

PIN ASSIGNMENT



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/6076923

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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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