



# SIG350-0006AP100

SIG350

SENSOR INTEGRATION GATEWAY

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
SIG350-0006AP100	6076924

Other models and accessories → [www.sick.com/SIG350](http://www.sick.com/SIG350)



### Detailed technical data

#### Features

<b>Product category</b>	IO-Link Master
<b>Supported products</b>	IO-Link Devices Binary switching sensors Binary actuators
<b>Further functions</b>	Web server integrated IIoT interface available (dual talk)
<b>Items supplied</b>	SIG350-0006AP100, Marking labels, quickstart

#### Mechanics/electronics

<b>Connections</b>	
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
<b>Power voltage supply</b>	
Supply voltage	18 V DC ... 30 V DC <sup>1)</sup>
Current carrying capacity (PWR1, PWR2) max.	≤ 16 A, U <sub>S</sub> <sup>2)</sup> ≤ 16 A, U <sub>A</sub> <sup>2)</sup>
<b>Current consumption</b>	
	≤ 180 mA <sup>3)</sup>
<b>Voltage supply U<sub>S</sub> (sensors)</b>	

<sup>1)</sup> Each for U<sub>S</sub> and U<sub>A</sub>, typ. supply voltage 24 V DC.

<sup>2)</sup> ≤ +40 °C (see "Derating" information in operating instructions).

<sup>3)</sup> Without load, sensors and outputs switched off.

<sup>4)</sup> When using a SELV or PELV power supply unit.

Total current (S1 ... S8)	≤ 10 A <sup>2)</sup>
Voltage supply (pin 1)	2 A
Output current (DO) (pin 2 + pin 4)	2 A
Current carrying capacity per port max.	4 A
<b>Voltage supply U<sub>A</sub> (actuators)</b>	
Total current (S1 ... S8)	≤ 10 A <sup>2)</sup>
Voltage supply (pin 2)	2 A
Current carrying capacity per port max.	4 A
<b>Digital inputs</b>	
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)
<b>Digital outputs</b>	
Number	16, configurable
Type	PNP
Switching frequency	≤ 50 Hz
Circuit protection	Short-circuit protected (MOSFET with current measurement)
<b>Optical indicators</b>	
	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 communication)
	2 LED green/red (power supply)
<b>Enclosure rating</b>	IP67 (In fastened condition)
<b>Protection class</b>	III <sup>4)</sup>
<b>Contamination rating</b>	2
<b>Housing material</b>	Plastic (Valox 553)
<b>Housing color</b>	Dark gray
<b>Weight</b>	486 g
<b>Dimensions (L x W x H)</b>	225 mm x 63 mm x 37.4 mm
<b>UL File No.</b>	E238799

<sup>1)</sup> Each for U<sub>S</sub> and U<sub>A</sub>, typ. supply voltage 24 V DC.

<sup>2)</sup> ≤ +40 °C (see "Derating" information in operating instructions).

<sup>3)</sup> Without load, sensors and outputs switched off.

<sup>4)</sup> When using a SELV or PELV power supply unit.

## Communication interface

<b>IO-Link</b>	✓, V1.1
Number of ports	8

<sup>1)</sup> Freely configurable per port, no galvanic separation between U<sub>S</sub> and U<sub>A</sub>.

	Port Class	A/B <sup>1)</sup>
	Data transmission rate	COM1, COM2, COM3
	Additional features	Data Storage
<b>Ethernet</b>		✓
<b>EtherCAT</b>		✓
	Number of ports	2
	Data transmission rate	10/100 MBit/s
	Cycle time	≥ 250 µs
	Addressing	Auto-increment, fixed addressing (rotary switch: static EtherCAT address (0-99))
	Factory setting	Static IP address 0.0.0.0, DHCP client not activated
<b>REST API</b>		✓
	Specification	JSON integration for IO-Link version (V1.0.0)
<b>MQTT</b>		✓
	Specification	JSON integration for IO-Link version (V1.0.0)
<b>OPC UA</b>		✓
	Specification	IO-Link Companion Specification Version (V1.0)
<b>Operator interfaces</b>		Integrated web server (a suitable EtherCAT PLC is required to activate the web server)

<sup>1)</sup> Freely configurable per port, no galvanic separation between U<sub>S</sub> and U<sub>A</sub>.

### Ambient data

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

<sup>1)</sup> Permissible relative humidity 0% ... 95% (non-condensing).

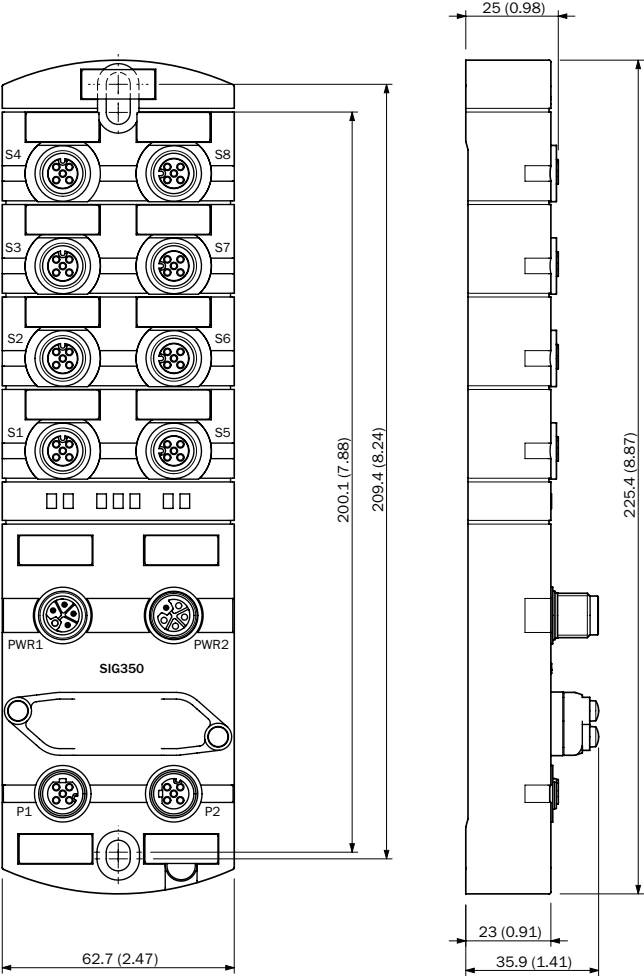
### Classifications

<b>eCl@ss 5.0</b>	27242208
<b>eCl@ss 5.1.4</b>	27242608
<b>eCl@ss 6.0</b>	27242608
<b>eCl@ss 6.2</b>	27242608
<b>eCl@ss 7.0</b>	27242608
<b>eCl@ss 8.0</b>	27242608
<b>eCl@ss 8.1</b>	27242608
<b>eCl@ss 9.0</b>	27242608
<b>eCl@ss 10.0</b>	27242608
<b>eCl@ss 11.0</b>	27242608
<b>eCl@ss 12.0</b>	27242608
<b>ETIM 5.0</b>	EC001604
<b>ETIM 6.0</b>	EC001604
<b>ETIM 7.0</b>	EC001604
<b>ETIM 8.0</b>	EC001604

UNSPSC 16.0901

32151705

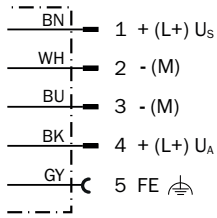
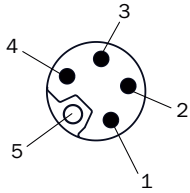
Dimensional drawing (Dimensions in mm (inch))



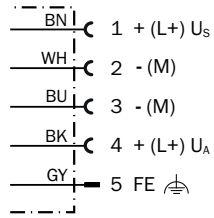
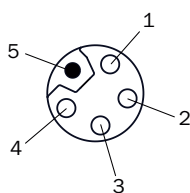
### Connection diagram

Cd-535

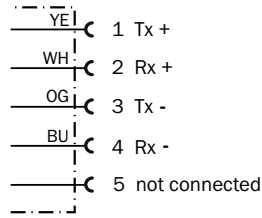
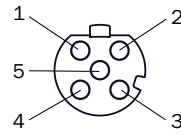
#### Power PWR1



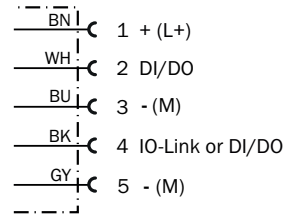
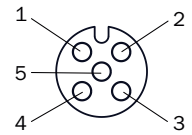
#### Power PWR2



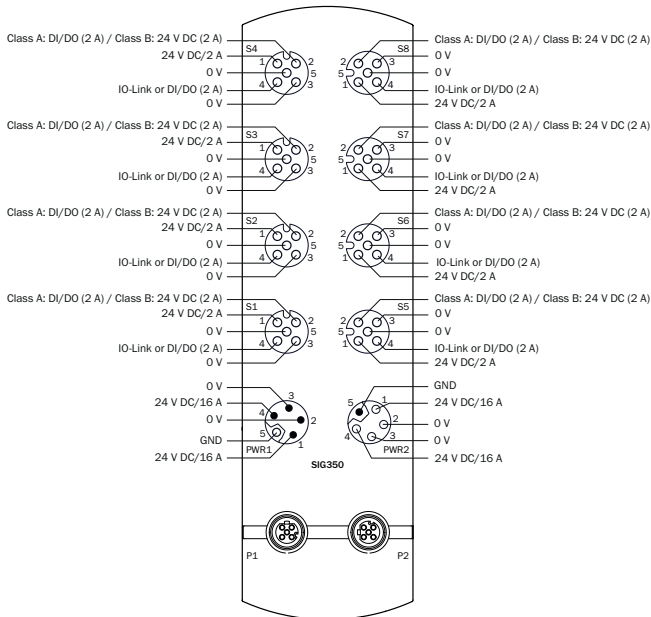
#### Ports P1 / P2



#### S1 ... S8











### PIN assignment



Recommended accessories

Other models and accessories → [www.sick.com/SIG350](http://www.sick.com/SIG350)

	Brief description	Type	Part no.
Device protection (mechanical)			
	10 pieces, Protective cap for M12 socket or unused ports	D0S-12SK	5309189
Distributors			
	Head A: male connector, M12, 5-pin, A-coded Head B: female connector, M12, 4-pin, A-coded Cable: Sensor/actuator cable	YM2A15-000S01FY2A4	2099600
Plug connectors and cables			
	Head A: female connector, M12, 5-pin, straight, L-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2L15-050UH1XLEAX	2099626
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 1 m	YF2A14-010UB3M2A14	2095997
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: male connector, M12, 4-pin, straight, A-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A14-050UB3M2A14	2096001
	Head A: female connector, M12, 5-pin, straight, L-coded Head B: male connector, M12, 5-pin, straight, L-coded Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 1 m	YF2L15-010UK1M2L15	2125147
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 4-pin, straight Cable: Ethernet, EtherNet/IP™, TPE, shielded, 1 m	YM2D24-010EF4MRJA4	2112844
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 4-pin, straight Cable: Ethernet, PROFINET, PUR, halogen-free, shielded, 2 m	YM2D24-020PN1MRJA4	2106182

## 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)