



# SRA3-AAC100ZANI

safeRS3

SAFETY RADAR SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	part no.
SRA3-AAC100ZANI	6080600

Other models and accessories → [www.sick.com/safeRS3](http://www.sick.com/safeRS3)

### Detailed technical data

#### Features

<b>System part</b>	control
<b>Variant</b>	safeRS3 Control I/O
<b>Manufacturer designation</b>	C203A (Model), SK02 (Type)
<b>Number of monitoring cases</b>	≤ 4
<b>Response time</b>	≤ 100 ms
<b>Items supplied</b>	safeRS3 control unit Safety instruction Operating instructions for download Mounting instructions safeRS3 Designer (configuration and diagnostic software) for download safeRS3 Designer 3D (configuration and diagnostic software) for download The sensors must be ordered separately.

#### Safety-related parameters

<b>Safety integrity level</b>	SIL 2 (IEC 62061)
<b>Category</b>	Category 3 (EN ISO 13849)
<b>Performance level</b>	PL d (EN ISO 13849)
<b>PFH<sub>D</sub> (mean probability of a dangerous failure per hour)</b>	For details, see operating instructions, "Safety-related parameters" section
<b>MTTF<sub>D</sub> (mean time to dangerous failure)</b>	42 years (IEC 60050)
<b>T<sub>M</sub> (mission time)</b>	20 years (EN ISO 13849)
<b>Safe state in the event of a fault</b>	At least one OSSD pair is in the OFF state.

#### Functions

<b>Restart interlock</b>	✓
<b>Muting</b>	✓
<b>Manipulation protection</b>	✓
<b>Safe detection of a person</b>	✓

## Interfaces

<b>Outputs</b>	OSSD pairs	≤ 2
	Universal outputs	≤ 4 <sup>1)</sup>
<b>Inputs</b>	Universal inputs	2 dual-channel <sup>1)</sup>
	Test input	1 <sup>2)</sup>
<b>Configuration method</b>	PC with safeRS3 Designer (Configuration and Diagnostic software), PC with safeRS3 Designer 3D (Configuration and Diagnostic software)	
<b>Configuration and diagnostics interface</b>	Micro USB	
<b>Display elements</b>	LEDs	

<sup>1)</sup> Freely configurable.

<sup>2)</sup> Prescribed as soon as at least one digital input is used.

## Electronics

<b>Supply voltage <math>V_s</math></b>	24 V DC (20 V DC ... 28 V DC)
<b>Power consumption</b>	≤ 1 A
<b>Power consumption</b>	≤ 33 W, control unit and six sensors

## Mechanics

<b>Dimensions (W x H x D)</b>	105 mm x 103 mm x 35 mm
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## Ambient data

<b>Enclosure rating</b>	IP20 (IEC 60529)
<b>Ambient operating temperature</b>	-30 °C ... +60 °C
<b>Storage temperature</b>	-40 °C ... +80 °C

## Certificates

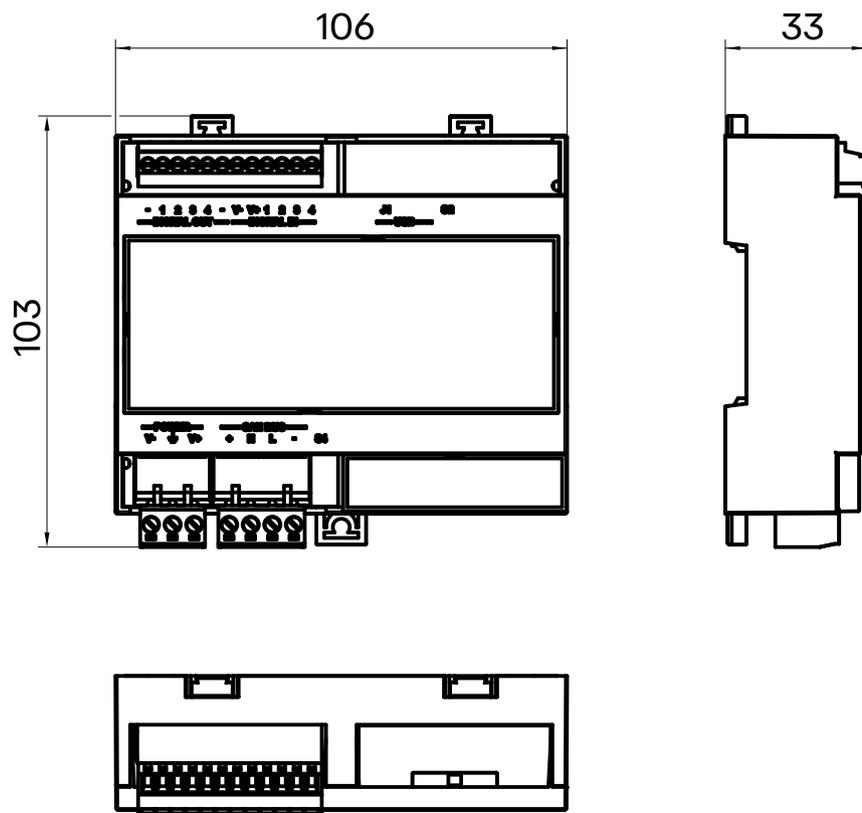
<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cUL approval</b>	✓
<b>RoHS manufacturer declaration</b>	✓

## Classifications

<b>ECLASS 5.0</b>	27270890
<b>ECLASS 5.1.4</b>	27270890
<b>ECLASS 6.0</b>	27280800
<b>ECLASS 6.2</b>	27280800
<b>ECLASS 7.0</b>	27280890
<b>ECLASS 8.0</b>	27280890
<b>ECLASS 8.1</b>	27280890
<b>ECLASS 9.0</b>	27280890
<b>ECLASS 10.0</b>	27280890

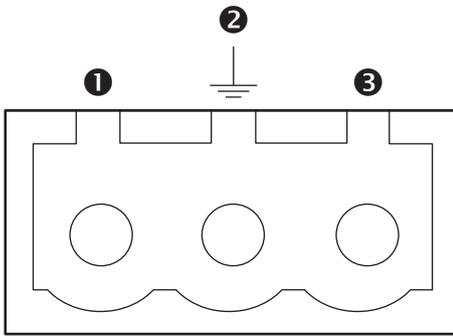
<b>ECLASS 11.0</b>	27280890
<b>ECLASS 12.0</b>	27280890
<b>ETIM 5.0</b>	EC001825
<b>ETIM 6.0</b>	EC001825
<b>ETIM 7.0</b>	EC001825
<b>ETIM 8.0</b>	EC001825
<b>UNSPSC 16.0901</b>	39121528

### Dimensional drawing



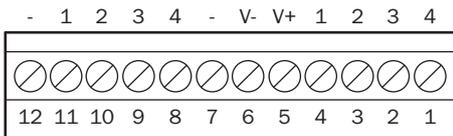
Dimensions in mm (inch)

Pinouts Voltage supply



- ① GND
- ② Ground
- ③ +24 V DC

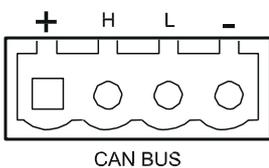
Pinouts Digital inputs and outputs



Pin	Description
1	Input 2, channel 2
2	Input 2, channel 1
3	Input 1, channel 2
4	Input 1, channel 1
5	V+ (SNS) for digital input diagnostics (obligatory when at least one input is used)
6	V- (SNS), mutual reference potential (obligatory when at least one input is used)
7	GND, mutual reference potential for all digital outputs
8	Output 4 (OSSD 4)
9	Output 3 (OSSD 3)
10	Output 2 (OSSD 2)
11	Output 1 (OSSD 1)
12	GND, mutual reference potential for all digital outputs

For details see operating instructions

Pin assignment Sensor connection



Terminal	Description
+	+12 V DC
H	CAN H
L	CAN L
-	GND
For details see operating instructions	

### Recommended accessories

Other models and accessories → [www.sick.com/safeRS3](http://www.sick.com/safeRS3)

	Brief description	Type	part no.
connectors and cables			
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Male connector, Micro-B, 4-pin, straight</li> <li>• <b>Connection type head B:</b> Male connector, USB-A, 4-pin, straight</li> <li>• <b>Signal type:</b> USB 2.0</li> <li>• <b>Cable:</b> 5 m, 4-wire, PVC</li> <li>• <b>Description:</b> USB 2.0, shielded</li> </ul>	YMUSA4-050VG4MUIA4	2118400
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Male connector, USB-A, 4-pin, straight</li> <li>• <b>Connection type head B:</b> Female connector, USB-A, 4-pin, straight</li> <li>• <b>Signal type:</b> USB</li> <li>• <b>Cable:</b> 10 m, 4-wire, PVC</li> <li>• <b>Description:</b> USB, shielded</li> <li>• <b>Note:</b> Used to extend the USB interface by 10 m. The cable can be extended up to 20 m by plugging in another 10 m extension.</li> </ul>	YMUSD4-100VG6FUSE4	6069292
	<ul style="list-style-type: none"> <li>• <b>Description:</b> USB 2.0, unshielded</li> <li>• <b>Connection type head A:</b> Male connector, Micro-B, 4-pin, straight</li> <li>• <b>Connection type head B:</b> Male connector, USB-A, 4-pin, straight</li> <li>• <b>Signal type:</b> USB 2.0</li> <li>• <b>Cable:</b> 2 m, 4-wire</li> </ul>	YMUSA4-020VG4MUIA4	6036106
	<ul style="list-style-type: none"> <li>• <b>Connection type head A:</b> Male connector, M12, 5-pin, straight, A-coded</li> <li>• <b>Signal type:</b> CANopen, DeviceNet™</li> <li>• <b>Description:</b> CANopen, DeviceNet™</li> </ul>	YM2W15-000000XXXXX	2123627

## 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)