



# MICS3-CCAZ40AN1

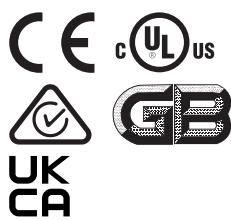
microScan3

SAFETY LASER SCANNERS

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

Type	part no.
MICS3-CCAZ40AN1	1133817

Other models and accessories → [www.sick.com/microScan3](http://www.sick.com/microScan3)

## Detailed technical data

### Features

<b>Product version</b>	microScan3 Pro I/O
<b>Model</b>	Sensor without system plug
<b>Application</b>	Indoor
<b>Protective field range</b>	4 m
<b>Warning field range</b>	40 m
<b>Number of simultaneously monitored fields</b>	≤ 8 <sup>1)</sup>
<b>Number of fields</b>	128
<b>Number of monitoring cases</b>	128
<b>Scanning angle</b>	275°
<b>Resolution (can be configured)</b>	30 mm 40 mm 50 mm 70 mm 150 mm 200 mm
<b>Angular resolution</b>	0.39°
<b>Response time</b>	70 ms
<b>Protective field supplement</b>	65 mm

<sup>1)</sup> Protection, warning or contour detection fields.

### Safety-related parameters

<b>Type</b>	Type 3 (IEC 61496)
<b>Safety integrity level</b>	SIL 2 (IEC 61508)
<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>	8.0 x 10 <sup>-8</sup>
<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 is in the OFF state.

## Functions

<b>Restart interlock</b>	✓
<b>External device monitoring (EDM)</b>	✓
<b>Multiple sampling</b>	✓
<b>Monitoring case switching</b>	✓
<b>Simultaneous monitoring</b>	✓
<b>Static protective field switching</b>	✓
<b>Safe contour detection</b>	✓
<b>Contour as a reference</b>	✓
<b>Integrated configuration memory</b>	✓
<b>Measured data output</b>	Via Ethernet

## Interfaces

<b>Connection type</b>	
Voltage supply	1 x male connector, M12, 4-pin, A-coded
Local inputs and outputs (I/O)	2 x female connector, M12, 17-pin, A-coded
Dynamic switching signals	2 x female connector, M12, 8-pin, A-coded
Fieldbus, industrial network	1 x M12 female connectors, 4-pin, D-coded
<b>Outputs</b>	
OSSD pairs	4
Universal outputs	4 <sup>1)</sup>
<b>Inputs</b>	
Universal inputs	16 <sup>1)</sup>
Dynamic switching signals	2
Static control inputs	8
<b>Configuration method</b>	PC with Safety Designer (Configuration and Diagnostic Software)
<b>Configuration and diagnostics interface</b>	USB 2.0, Mini-USB, Ethernet
<b>Data interface</b>	
Type of data interface	Ethernet
Port properties	100Base-TX
	Auto-negotiation
	Auto-crossover (MDIX)
	Auto-polarity
Services	Configuration and diagnostics using Safety Designer
	Data output
	SNTP (client)

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

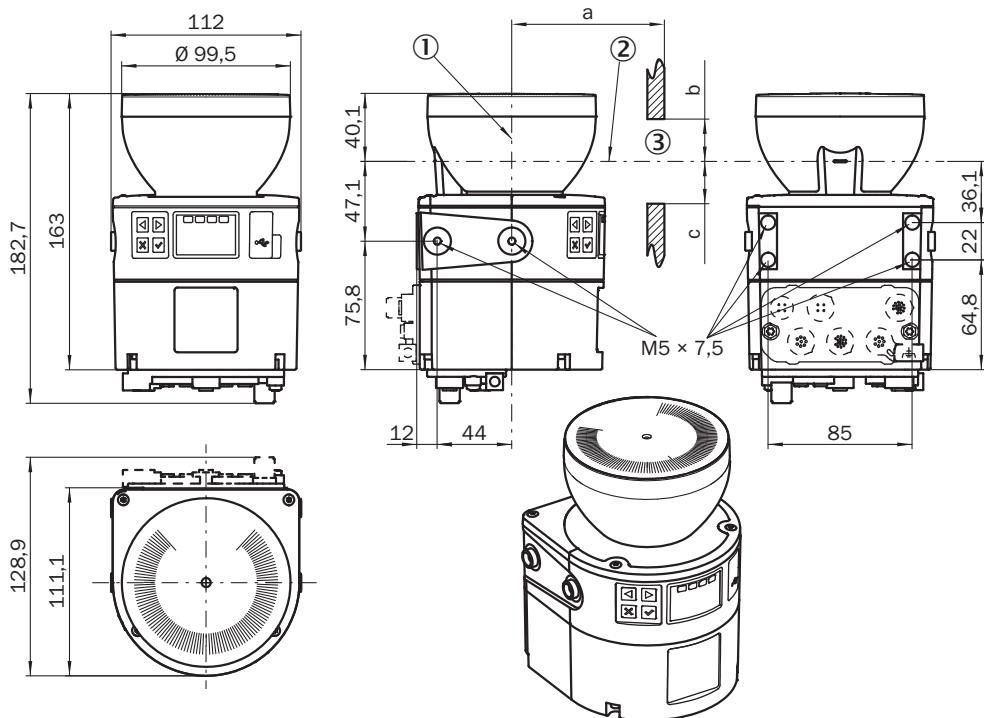
<b>Display elements</b>	Graphic color display, LEDs																				
1) Freely configurable.																					
<b>Electronics</b>																					
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<b>ECLASS 11.0</b>	27272705
<b>ECLASS 12.0</b>	27272705
<b>ETIM 5.0</b>	EC002550
<b>ETIM 6.0</b>	EC002550
<b>ETIM 7.0</b>	EC002550
<b>ETIM 8.0</b>	EC002550
<b>UNSPSC 16.0901</b>	39121528

### Certificates

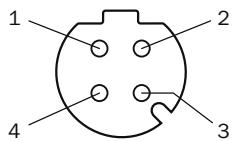
<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>ACMA declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓
<b>EC-Type-Examination approval</b>	✓
<b>China GB certificate</b>	✓
<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓

### Dimensional drawing



Dimensions in mm (inch)

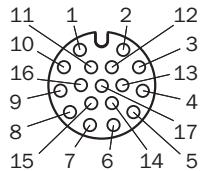
## Pinouts Ethernet (XF1)



Pin	Designation	Description
1	TX+	Send data +
2	RX+	Receive data +
3	TX-	Send data -
4	RX-	Receive data -
Thread	SH	Shielding

For details see operating instructions

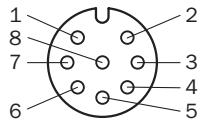
## Pinouts Local inputs and outputs (XG4)



Pin	Designation	Description
1	OSSD 3.A	OSSD pair 3, OSSD A
2	OSSD 3.B	OSSD pair 3, OSSD B
3	OSSD 4.A	OSSD pair 4, OSSD A
4	OSSD 4.B	OSSD pair 4, OSSD B
5	n.c.	Not connected
6	n.c.	Not connected
7	n.c.	Not connected
8	n.c.	Not connected
9	Uni-I 11	Universal input 11, configurable
10	Uni-I 12	Universal input 12, configurable
11	Uni-I 13	Universal input 13, configurable
12	Uni-I 14	Universal input 14, configurable
13	Uni-I 15	Universal input 15, configurable
14	Uni-I 16	Universal input 16, configurable
15	Uni-O 03	Universal output 3
16	Uni-O 04	Universal output 4
17	0 V DC	Voltage for inputs and outputs (0 V DC) *

Pin	Designation	Description
* If at least one connection of the female connector is used, this 0 V connection must be connected in the control cabinet to 0 V DC of the power supply unit using a low-impedance and star-point connection.		
For details see operating instructions		

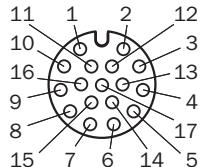
### Pinouts Dynamic control input (XG2, XG3)



Pin	Designation	Description
1	n.c.	Not connected
2	Inc 0°	Incremental encoder signal (0°)
3	n.c.	Not connected
4	Inc 90°	Incremental encoder signal (90°)
5	n.c.	Not connected
6	n.c.	Not connected
7	0 V Inc	Supply voltage for incremental encoder (0 V DC)
8	24 V DC Inc	Supply voltage for incremental encoder (+24 V DC)

For details see operating instructions

### Pinouts Local inputs and outputs (XG1)



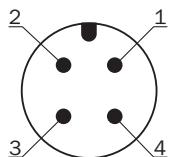
Pin	Designation	Description
1	OSSD 1.A	OSSD pair 1, OSSD A
2	OSSD 1.B	OSSD pair 1, OSSD B
3	OSSD 2.A	OSSD pair 2, OSSD A
4	OSSD 2.B	OSSD pair 2, OSSD B
5	Uni-I 01	Universal input 1, configurable
6	Uni-I 02	Universal input 2, configurable
7	Uni-I 03	Universal input 3, configurable
8	Uni-I 04	Universal input 4, configurable
9	Uni-I 05	Universal input 5, configurable
10	Uni-I 06	Universal input 6, configurable
11	Uni-I 07	Universal input 7, configurable

Pin	Designation	Description
12	Uni-I 08	Universal input 8, configurable
13	Uni-I 09	Universal input 9, configurable
14	Uni-I 10	Universal input 10, configurable
15	Uni-O 01	Universal output 1
16	Uni-O 02	Universal output 2
17	0 V DC	Voltage for inputs and outputs (0 V DC) *

\* If at least one connection of the female connector is used, this 0 V connection must be connected in the control cabinet to 0 V DC of the power supply unit using a low-impedance and star-point connection.

For details see operating instructions

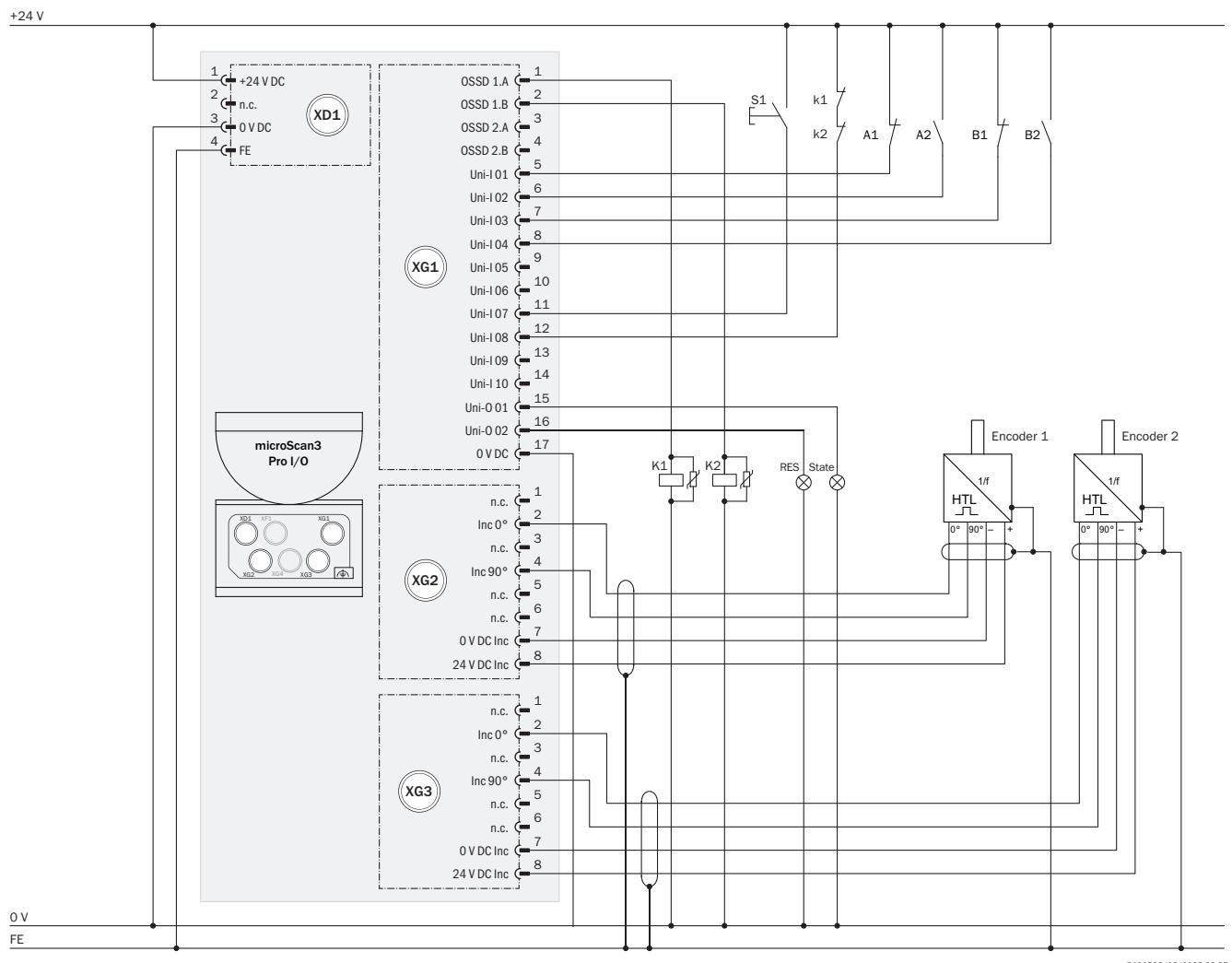
## Pinouts Voltage supply (XD1)



Pin	Designation	Description
1	+24 V DC	Supply voltage +24 V DC
2	n.c.	Not connected
3	0 V DC	Supply voltage 0 V DC
4	FE	Functional earth/shielding

For details see operating instructions

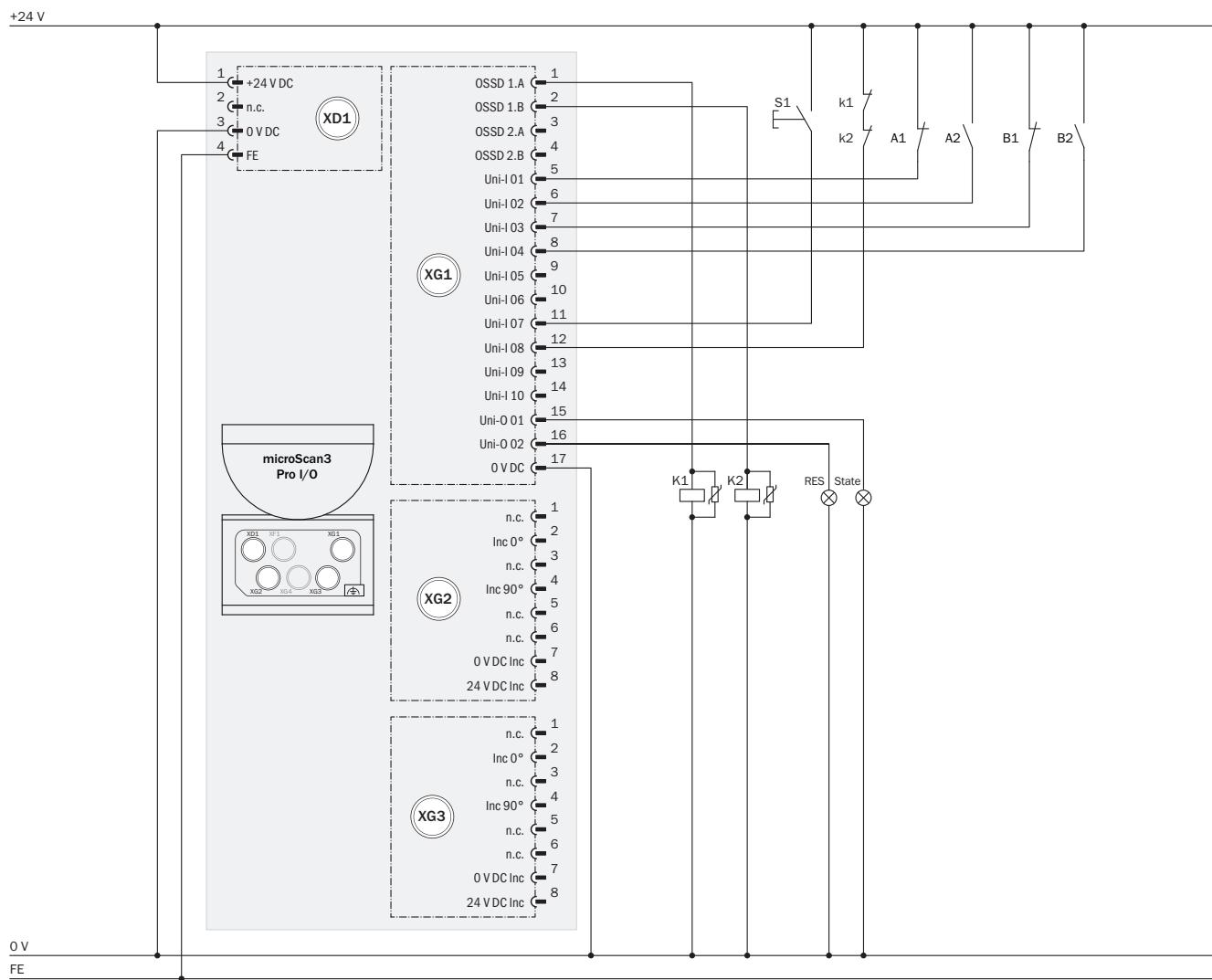
Connection diagram Monitoring case switching using static and dynamic inputs



The requirements in the operating instructions of the devices used must be adhered to.

E420588/00/2025-03-07

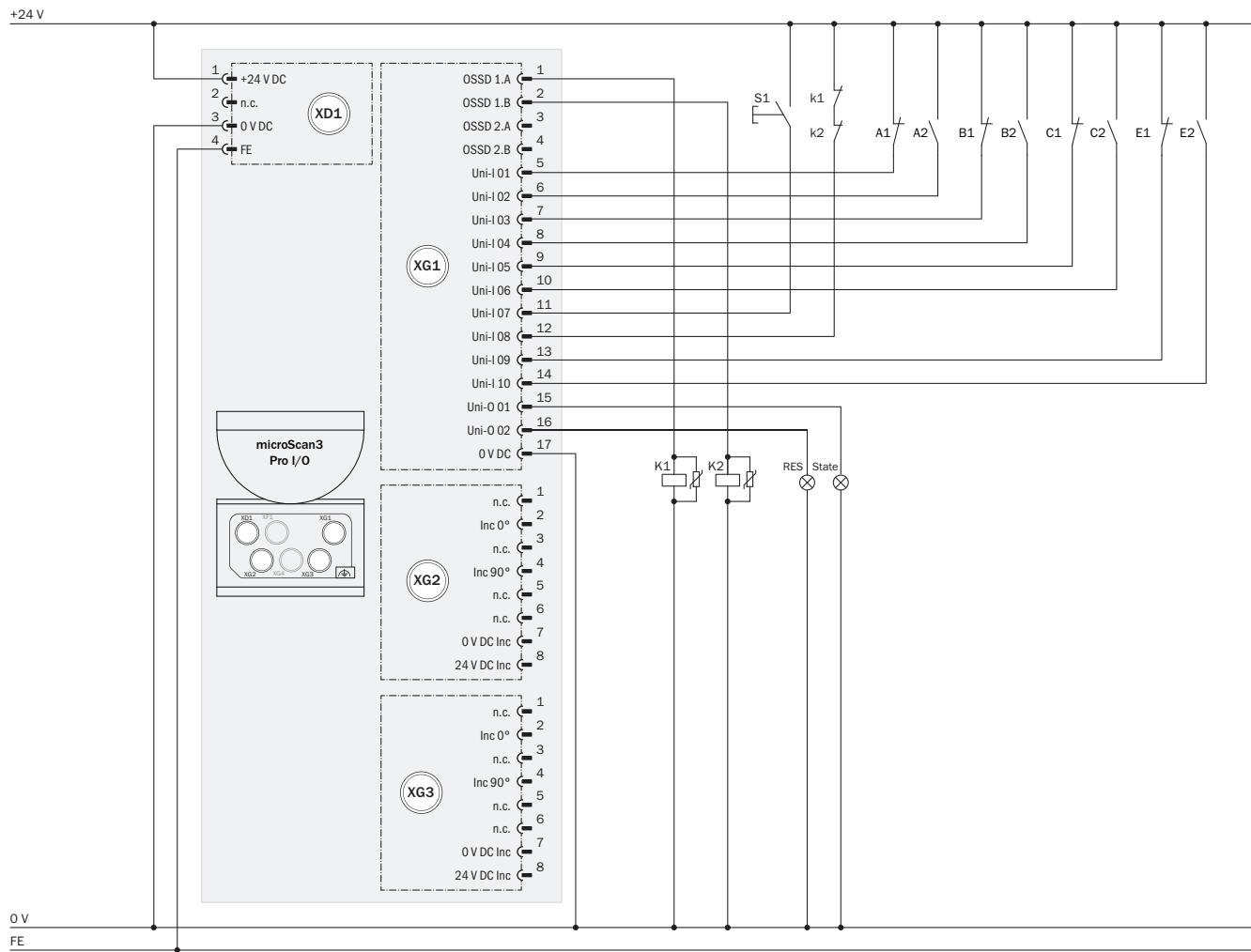
## Connection diagram Monitoring case switching using static inputs



The requirements in the operating instructions of the devices used must be adhered to.

E420562/00/2025-03-07

Connection diagram Monitoring case switching using static inputs



The requirements in the operating instructions of the devices used must be adhered to.

E422311/00/2025-03-10

## Recommended accessories

Other models and accessories → [www.sick.com/microScan3](http://www.sick.com/microScan3)

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket, heavy-duty version, with protection cover, for floor mounting, height adjustment possible from 90 ... 310 mm, scanner tilt angle: <math>\pm 5^\circ</math>. Additional mounting brackets are not required.</li> <li><b>Dimensions (W x H x L):</b> 200 mm x 366 mm x 269 mm</li> <li><b>Material:</b> Steel</li> <li><b>Details:</b> Steel, painted (RAL 1021)</li> <li><b>Color:</b> RAL 1021 (yellow)</li> <li><b>Packing unit:</b> 1 piece</li> </ul>	Heavy-duty mounting kit for floor mounting	2102289
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket with protection of optics hood</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A</li> <li><b>Color:</b> RAL 9005 (black)</li> <li><b>Packing unit:</b> 1 piece</li> </ul>	1b mounting kit	2074242
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A</li> <li><b>Color:</b> RAL 9005 (black)</li> <li><b>Packing unit:</b> 1 piece</li> </ul>	Mounting kit 1a	2073851
	<ul style="list-style-type: none"> <li><b>Description:</b> Alignment bracket, alignment with cross-wise axis and depth axis possible, distance between mounting surface and device: 22.3 mm, only in conjunction with mounting kit 1a (2073851) or 1b (2074242)</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A</li> <li><b>Color:</b> RAL 9005 (black)</li> <li><b>Packing unit:</b> 1 piece</li> </ul>	Mounting kit 2a	2073852
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket 150 mm for floor mounting of microScan3</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel</li> <li><b>Color:</b> Uncoated</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Items supplied:</b> Bracket and 4 x M5 screws for attaching the microScan3</li> </ul>	Mounting bracket 150 mm for floor mounting of microScan3	2112950
	<ul style="list-style-type: none"> <li><b>Description:</b> Mounting bracket 300 mm for floor mounting of microScan3</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel</li> <li><b>Color:</b> Uncoated</li> <li><b>Packing unit:</b> 1 piece</li> <li><b>Items supplied:</b> Bracket and 4 x M5 screws for attaching the microScan3</li> </ul>	Mounting bracket 300 mm for floor mounting of microScan3	2112951
	<ul style="list-style-type: none"> <li><b>Description:</b> Alignment bracket, alignment with cross-wise axis and depth axis possible, distance between mounting surface and device: 52.3 mm, only in conjunction with mounting kit 1a (2073851) or 1b (2074242)</li> <li><b>Material:</b> Stainless steel</li> <li><b>Details:</b> Stainless steel V2A (1.4301), powder-coated IGP-DURA face 5803A</li> <li><b>Color:</b> RAL 9005 (black)</li> <li><b>Packing unit:</b> 1 piece</li> </ul>	Mounting kit 2b	2074184

	<b>Brief description</b>	<b>Type</b>	<b>part no.</b>
connectors and cables			
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, straight</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection systems:</b> Flying leads</li> <li><b>Application:</b> Zones with oils and lubricants, Drag chain operation</li> </ul>	DOL-1204G05M-C75KMO	2079291
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 4-pin, angled</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Connection systems:</b> Flying leads</li> <li><b>Application:</b> Zones with oils and lubricants, Drag chain operation</li> </ul>	DOL-1204W05M-C75KMO	2079294
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Female connector, M12, 8-pin, straight, A-coded</li> <li><b>Connection type head B:</b> Male connector, M12, 8-pin, straight, A-coded</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 2 m, 8-wire, PUR, halogen-free</li> <li><b>Description:</b> Sensor/actuator cable, shielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YF2A28-020UA6M2A28	2096105
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 17-pin, straight</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 17-wire, PUR</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YM2A1D-100U-V1XLEAX	2118016
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 17-pin, angled</li> <li><b>Connection type head B:</b> Flying leads</li> <li><b>Signal type:</b> Sensor/actuator cable</li> <li><b>Cable:</b> 10 m, 17-wire, PUR</li> <li><b>Description:</b> Sensor/actuator cable, unshielded</li> <li><b>Application:</b> Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation</li> </ul>	YN2A1D-100U-V1XLEAX	2118011
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 8-pin, straight</li> <li><b>Signal type:</b> Ethernet</li> <li><b>Cable:</b> 20 m, 4-wire, CAT5, CAT5e, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded</li> </ul>	SSL-2J04-H20ME	6063701
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, angled, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YN2D24-050P-N1MRJA4	2106163
	<ul style="list-style-type: none"> <li><b>Connection type head A:</b> Male connector, M12, 4-pin, straight, D-coded</li> <li><b>Connection type head B:</b> Male connector, RJ45, 4-pin, straight</li> <li><b>Signal type:</b> Ethernet, PROFINET</li> <li><b>Cable:</b> 5 m, 4-wire, PUR, halogen-free</li> <li><b>Description:</b> Ethernet, shielded, PROFINET</li> <li><b>Application:</b> Drag chain operation, Zones with oils and lubricants</li> </ul>	YM2D24-050P-N1MRJA4	2106184

## 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.

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