



# MICSX-CAAAMDMD1

System plugs microScan3

SYSTEM PLUGS AND EXTENSION MODULES

**SICK**  
Sensor Intelligence.



Illustration may differ



Ordering information

| Type            | part no. |
|-----------------|----------|
| MICSX-CAAAMDMD1 | 2115434  |

Other models and accessories → [www.sick.com/System\\_plugs\\_microScan3](http://www.sick.com/System_plugs_microScan3)

Detailed technical data

Features

|                        |                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special feature</b> | Integrated configuration memory                                                                                                                                                                                                                                                                 |
| <b>Description</b>     | System connection; voltage supply: 1 x M12 male connector, 4-pin, A-coded; local inputs and outputs (I/O): 2 x M12 female connector, 17-pin, A-coded; dynamic control inputs: 2 x M12 female connector, 8-pin, A-coded; fieldbus, industrial network: 2 x M12 female connector, 4-pin, D-coded; |

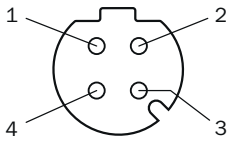
Certificates

|                                     |   |
|-------------------------------------|---|
| <b>EU declaration of conformity</b> | ✓ |
| <b>UK declaration of conformity</b> | ✓ |
| <b>China-RoHS</b>                   | ✓ |
| <b>cULus certificate</b>            | ✓ |

Classifications

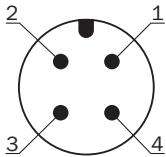
|                       |          |
|-----------------------|----------|
| <b>ECLASS 5.0</b>     | 27279290 |
| <b>ECLASS 5.1.4</b>   | 27279290 |
| <b>ECLASS 6.0</b>     | 27279221 |
| <b>ECLASS 6.2</b>     | 27279221 |
| <b>ECLASS 7.0</b>     | 27440104 |
| <b>ECLASS 8.0</b>     | 27440104 |
| <b>ECLASS 8.1</b>     | 27440104 |
| <b>ECLASS 9.0</b>     | 27440102 |
| <b>ECLASS 10.0</b>    | 27440102 |
| <b>ECLASS 11.0</b>    | 27440102 |
| <b>ECLASS 12.0</b>    | 27440102 |
| <b>ETIM 5.0</b>       | EC002635 |
| <b>ETIM 6.0</b>       | EC002635 |
| <b>ETIM 7.0</b>       | EC002635 |
| <b>ETIM 8.0</b>       | EC002635 |
| <b>UNSPSC 16.0901</b> | 39121421 |

## Pinouts Ethernet (XF1, XF2)



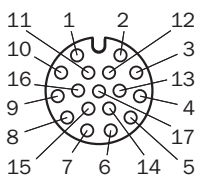
| Pin                                    | Designation | Description    |
|----------------------------------------|-------------|----------------|
| 1                                      | TX+         | Send data +    |
| 2                                      | RX+         | Receive data + |
| 3                                      | TX-         | Send data -    |
| 4                                      | RX-         | Receive data - |
| Thread                                 | SH          | Shielding      |
| For details see operating instructions |             |                |

## Pinouts 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 |             |                            |

## Pinouts Local inputs and outputs (XG1)



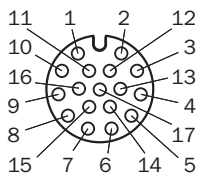
| Pin | Designation | Description                     |
|-----|-------------|---------------------------------|
| 1   | OSSD 1.A    | OSSD pair 1, OSSD A             |
| 2   | OSSD 1.B    | OSSD pair 1, OSSD B             |
| 3   | OSSD 2.A    | OSSD pair 2, OSSD A             |
| 4   | OSSD 2.B    | 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 |

| Pin | Designation | Description                               |
|-----|-------------|-------------------------------------------|
| 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           |
| 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 Local inputs and outputs (XG4)

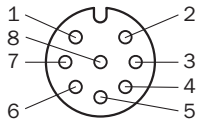


| Pin | Designation | Description                               |
|-----|-------------|-------------------------------------------|
| 1   | OSSD 3.A    | OSSD pair 3, OSSD A                       |
| 2   | OSSD 3.B    | OSSD pair 3, OSSD B                       |
| 3   | OSSD 4.A    | OSSD pair 4, OSSD 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) * |

\* 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 |             |                                                   |

## 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)