

## Overview

### Product information



**SD-M12A-03P-MM-SH8A50-20030001074**

Sensor/Actuator Female socket,M12,Coding A,Front panel installation/PG9  
Thread mounted,With 0.5m litz wires

### Product advantages

- ☑ Sealing optimization, protection level up to IP68
- ☑ Meet the harsh environment
- ☑ Suitable for various occasions connection technology
- ☑ Compatible with the international and domestic same series products

### Product certification



## Technical data

### Product drawing

### 3D model

□

### Environmental conditions

|                     |            |
|---------------------|------------|
| Ambient temperature | -25℃...80℃ |
|---------------------|------------|

|          |      |
|----------|------|
| IP class | IP68 |
|----------|------|

### General parameters

|                       |          |
|-----------------------|----------|
| Rated current         | 4A       |
|                       | 250V     |
| Number of potentials  | 3        |
| Insulation resistance | ≥ 100 MΩ |
| Error-proof coding    | A-Code   |

|                             |                                    |
|-----------------------------|------------------------------------|
| Overvoltage level           | II                                 |
| Pollution level             | 3                                  |
| Connection method           | Single wire                        |
| Insertion and pullout cycle | ≥ 100                              |
| Torque                      | 0.4 Nm                             |
| Type of installation        | Installation in front of the board |

#### Material

|                                        |                           |
|----------------------------------------|---------------------------|
| Flammability rating ,in line with UL94 | V0                        |
| Contact material                       | CuZn                      |
| Material contact surface               | Au                        |
| Contact carrier material               | PA                        |
| Coil material                          | Zinc alloy, nickel plated |
| Sealing material                       | Silicon                   |

#### Standards and specifications

|                          |                 |
|--------------------------|-----------------|
| Standards/specifications | IEC 61076-2-101 |
|--------------------------|-----------------|

#### Cable

|                                            |                        |
|--------------------------------------------|------------------------|
| UL AWM form                                | UL1061                 |
| Cross section                              | 0.34mm²                |
| AWG signal wire                            | 22AWG                  |
| Wire structure Signal wire                 | 17/0.16mm²             |
| Core diameter (including insulation layer) | 1.30±0.05mm            |
| Wire color                                 | 1 Brown 3 Blue 4 Black |
| Thickness, insulation                      | 0.203mm                |
| Conductor insulation material              | PVC                    |
| Conductor material                         | Tinned copper          |

|                       |                                       |
|-----------------------|---------------------------------------|
| Insulation resistance | $\geq 20 \text{ M}\Omega$             |
| Conductor resistance  | Maximum 94.2 $\Omega$ /km (at 20 °C ) |
| Nominal cable voltage | 300V                                  |
| Cable test voltage    | 2000V                                 |

#### Dimension

|              |      |
|--------------|------|
| Cable length | 0.5m |
|--------------|------|

#### Accessories

##### Accessories

|             |                 |
|-------------|-----------------|
| Sealing cap | CAP-M12-FP-8002 |
|-------------|-----------------|

#### Business data

|                                     |             |
|-------------------------------------|-------------|
| Order number                        | 20030001074 |
| Packing unit                        | /           |
| Minimum order quantity              | 100         |
| Products weight (without packaging) | /           |