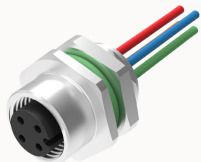


## Product information


**SD-M12A-08P-FF-SH8A50-20030001136**

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


**RoHS**
**REACH**


## Technical data

## Environmental conditions

|                     |              |
|---------------------|--------------|
| Ambient temperature | -25°C...80°C |
| IP class            | IP68         |

## General parameters

|                       |          |
|-----------------------|----------|
| Rated current         | 2A       |
|                       | 30V      |
| Number of potentials  | 8        |
| 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                              | 0.25mm <sup>2</sup>                                            |
| AWG signal wire                            | 24AWG                                                          |
| Wire structure Signal wire                 | 7/0.20mm <sup>2</sup>                                          |
| Core diameter (including insulation layer) | 1.10±0.05mm                                                    |
| Wire color                                 | 1 White 2 Brown 3 Green 4 Yellow 5 Gray 6 Pink<br>7 Blue 8 Red |
| Thickness, insulation                      | 0.18mm                                                         |
| Conductor insulation material              | PVC                                                            |

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

Dimension

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

Accessories

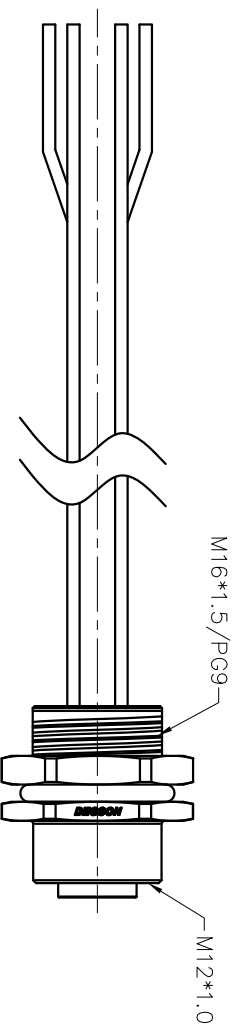
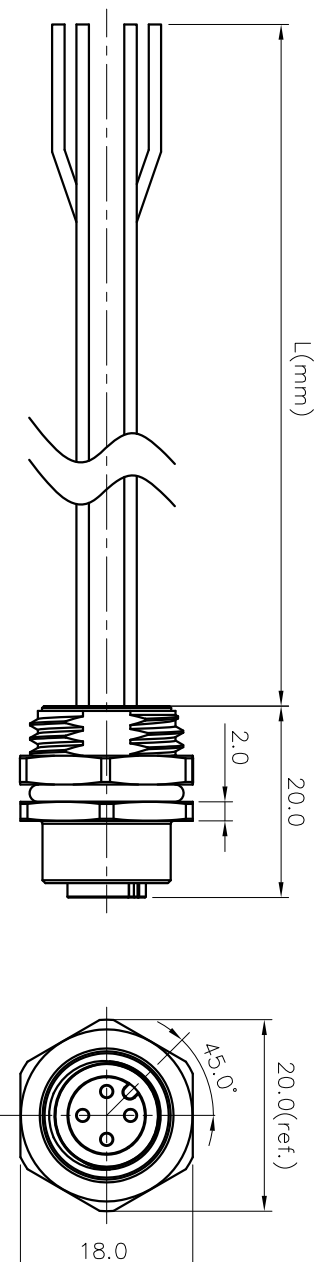
Accessories

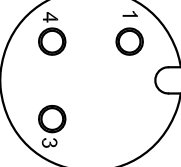
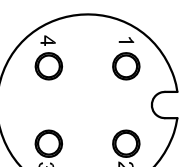
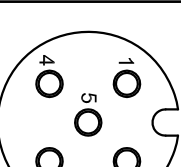
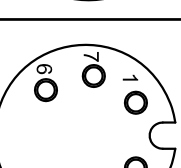
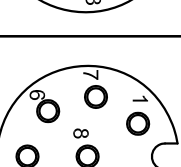
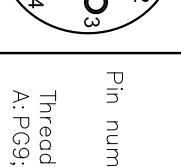
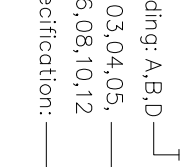
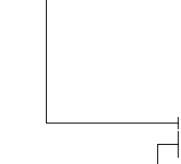
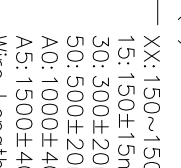
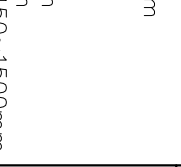
|             |                 |
|-------------|-----------------|
| Sealing cap | CAP-M12-MP-8002 |
|-------------|-----------------|

Business data

|                                     |             |
|-------------------------------------|-------------|
| Order number                        | 20030001136 |
| Packing unit                        | /           |
| Minimum order quantity              | 100         |
| Products weight (without packaging) | /           |

| REVISION RECORD |     |             |           |
|-----------------|-----|-------------|-----------|
| REV             | ECN | DESCRIPTION | DRFT DATE |



| 3pin A Coding                                                                       |  | 4pin A Coding                                                                       |  | 5pin A Coding                                                                       |  | 6pin A Coding                                                                       |  | 8pin A Coding                                                                       |  |
|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
|     |  |    |  |    |  |    |  |   |  |
| Pin Assignments<br>Front View                                                       |  | Pin Assignments<br>Front View                                                       |  | Pin Assignments<br>Front View                                                       |  | Pin Assignments<br>Front View                                                       |  | Pin Assignments<br>Front View                                                       |  |
|  |  |  |  |  |  |  |  |  |  |
| Pin                                                                                 |  | Pin                                                                                 |  | Pin                                                                                 |  | Pin                                                                                 |  | Pin                                                                                 |  |
| Wire Color                                                                          |  | Wire Color                                                                          |  | Wire Color                                                                          |  | Wire Color                                                                          |  | Wire Color                                                                          |  |
| Pin Out                                                                             |  | Pin Out                                                                             |  | Pin Out                                                                             |  | Pin Out                                                                             |  | Pin Out                                                                             |  |

SD-M12X-XXP-FF-SH8XXX-00A(H)

Coding: A,B,D

Pin number: 03,04,05, 06,08,10,12

Thread specification:

A: PG9;  
B: M16\*1.5

XX: 150~1500mm  
15: 150±15mm  
30: 300±20mm  
50: 500±20mm  
A0: 1000±40mm  
A5: 1500±40mm  
Wire Length L: 150~1500mm

|                                                                                    |  |                                |  |
|------------------------------------------------------------------------------------|--|--------------------------------|--|
| PART NO.:                                                                          |  | SDM12XXXPF-SH8XXX00AH          |  |
| APPD:                                                                              |  | NAME:                          |  |
| CHKD:                                                                              |  | SD-M12X-XXP-FF-SH8XXX-00A(H)   |  |
| DRFT: S Q 2019.05.17                                                               |  | TITLE: CUSTOMER DRAWING        |  |
|  |  | REV DO-1                       |  |
| THIRD ANGLE PROJECTION                                                             |  | DRAWING NO.: XXXXXXXX-XX-CXX   |  |
|  |  | SHEET 1/2                      |  |
|  |  | DO NOT SCALE DRAWING SCALE 1:1 |  |