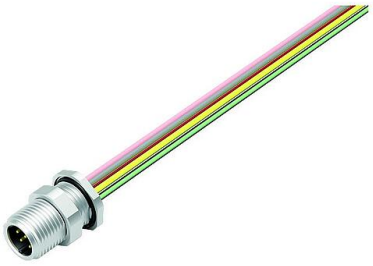
**Product data sheet**

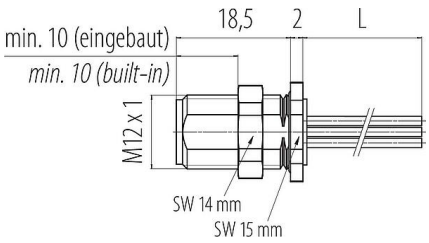
# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M12 Male panel mount connector, Contacts: 8, unshielded, single wires, IP68, UL 2238, M12x1.0, Rear mounting** |
| Area | **M12-A** |
| Coding | **A-coded** |
| Series | **763** |
| Part no. | **76 1031 1011 00008-0200** |

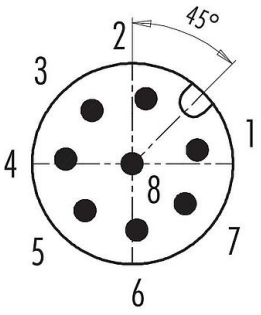
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




| | |
|---|---|
| 1 | white |
| 2 | brown |
| 3 | green |
| 4 | yellow |
| 5 | grey |
| 6 | pink |
| 7 | blue |
| 8 | red |

## Technical data

### General features

| | |
|---|---|
| Part no. | 76 1031 1011 00008-0200 |
| Connector design | Male panel mount connector |
| Coding | A-coded |
| Wire length | 0.2 m (Standard 0.2 m. Other lengths are available on request). |
| Version | Panel mount Connectors |
| Connector locking system | screw |
| Termination | single wires |
| Degree of protection | IP68 |
| Connection cross-section | 0.25 mm² / AWG 24 |
| Temperature range from/to | -40 °C / 85 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 15.65 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 30 V |
| Rated impulse voltage | 800 V |
| Rated current | 2.0 A |
| Insulation resistance | > $10^8$ Ω |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | II |
| EMC compliance | unshielded |
| Voltage | 650 V DC |

**Product data sheet**

# Automation technology - Sensors and actuators

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## Material

| | |
|---|---|
| Housing material | CuZn (Brass nickel plated) |
| Contact body material | PA |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | 638fd8a8-f252-4160-8082-5ca988743def |

## Wire Data - Structure of the wire

| | |
|---|---|
| Cross section (mm²) | 8 x 0.25 mm² |
| Cross section (AWG) | 8 x AWG 24 |
| Wire diameter | 1,5 mm |
| Wire colors | white<br>brown<br>green<br>yellow<br>grey<br>pink<br>blue<br>red |
| Sheath material | PVC |
| Wire material | Cu (tinned) |
| Wire structure | 7 x 0.203 mm |

## Wire Data - Electrical properties

| | |
|---|---|
| Rated voltage | 300 V |
| Rated impulse voltage | 3000 V |
| Wire resistance | 90 Ω/Km (20°C) |
| Insulation resistance | 20.0 MΩ/Km (20 °C) |

## Wire Data - Thermal properties

| | |
|---|---|
| Temperature range wire in move from / to (°C) | -10 °C / 105 °C |
| Temperature range wire fixed from / to (°C) | -30 °C / 105 °C |

## Authorization/approvals

| | |
|---|---|
| Approvals | UL 2238 |

**Product data sheet**

# Automation technology - Sensors and actuators

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## Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).

The protection class specification applies on condition that the four mounting holes are made as blind holes.