**Product data sheet**

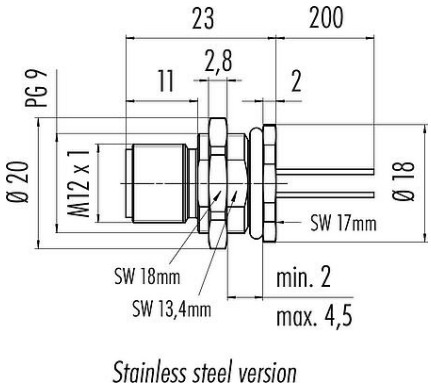
# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M12 Male panel mount connector, Contacts: 8, unshielded, single wires, IP68, UL 2238, PG 9, Rear mounting, stainless steel, potted** |
| Area | **M12-A** |
| Coding | **A-coded** |
| Series | **763** |
| Part no. | **76 2531 1111 00008-0200** |

## Illustration (may vary)

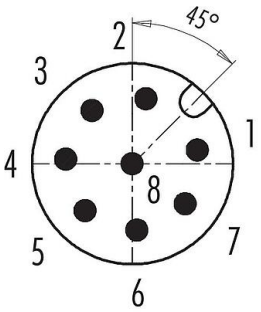


## Scale drawing




Stainless steel version

## Contact arrangement (Plug-in side)




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

**You can find the assembly instructions on the next page.**

## Technical data

### General features

| | |
|---|---|
| Part no. | 76 2531 1111 00008-0200<br>Alternative part no.: 09 3481 679 08 |
| Notice | Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right. |
| Connector design | Male panel mount connector |
| Type standard | DIN EN 61076-2-101 |
| Coding | A-coded |
| Wire length | 0.2 m (Standard 0.2 m. Other lengths are available on request). |
| Version | Connector pin straight |
| 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) | 21.11 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 30 V |
| Rated impulse voltage | 800 V |
| Rated current | 1.5 A |

**Product data sheet**

# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M12 Male panel mount connector, Contacts: 8, unshielded, single wires, IP68, UL 2238, PG 9, Rear mounting, stainless steel, potted** |
| Area | **M12-A** |
| Coding | **A-coded** |
| Series | **763** |
| Part no. | **76 2531 1111 00008-0200** |

| | |
|---|---|
| Insulation resistance | > $10^{8}$ Ω |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | III |
| EMC compliance | unshielded |

## Material

| | |
|---|---|
| Housing material | Stainless steel |
| Contact body material | PA black |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | 1288fdb1-38f8-4188-be9c-67b8aca0b2d1 |

## 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 |

## Classifications

| | |
|---|---|
| ETIM 9.0 | EC003570 |

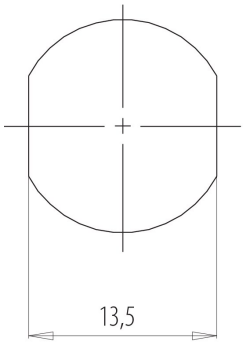
**Product data sheet**

# Automation technology - Sensors and actuators

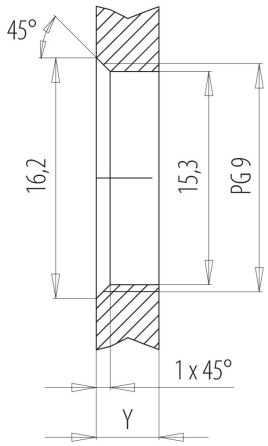
| | |
|---|---|
| Product description | **M12 Male panel mount connector, Contacts: 8, unshielded, single wires, IP68, UL 2238, PG 9, Rear mounting, stainless steel, potted** |
| Area | **M12-A** |
| Coding | **A-coded** |
| Series | **763** |
| Part no. | **76 2531 1111 00008-0200** |

## Assembly instructions / Panel cut-out

With flats as anti-rotation device




With bore hole




Installation direction:
o-ring sits on chamfer.

### Tightening moment

Metall housing/Plastic housing 1,25 Nm

| Thickness of wall **Y** (mm) | | |
|---|---|---|
| Version | **min** (mm) | **max** (mm) |
| Fastened from rear | 2 | 3,5 |
| Front fastened | 2 | 4,5 |
| positioning possible [1] | 2 | 3,5 |
| Screw clamp | 2 | 3,5 |
| Thread M12 x 1 | 2 | 3,0 |
| Thread M14 x 1 [2] | [3]1,5/[4]2 | 6,5 |

### Notes

[1] Do not attach a chamfer
[2] Wall thickness:
use nut 38 5385 100 001 up to 1,5 mm,
>1,5 mm cut thread
[3] Nut
[4] Thread in wall of housing

**Product data sheet**

# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M12 Male panel mount connector, Contacts: 8, unshielded, single wires, IP68, UL 2238, PG 9, Rear mounting, stainless steel, potted** |
| Area | **M12-A** |
| Coding | **A-coded** |
| Series | **763** |
| Part no. | **76 2531 1111 00008-0200** |

## 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.

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

The user must take appropriate safety precautions to ensure that the connector cannot be accidentally disconnected. In addition, the user must ensure that the cable is suitably secured.