



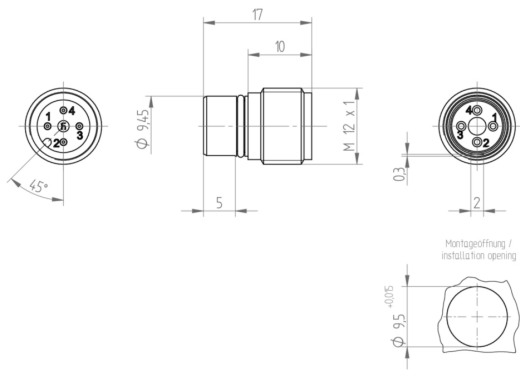
**Product:** [ELST 412 Sn grau](#)

M12 Insert Sensor/Actuator Receptacle Connector: Male, insert with O-ring and external threads, M12 - mating side, solder contacts - connecting side, 4-pin, A-coded, unshielded, grey body, 230 V AC/DC, 4 A

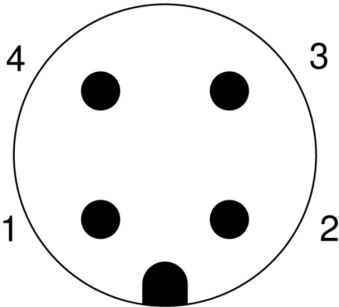
**Product Description**

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**Technical Drawing**



Male



**Technical Specifications**

**Technical Data**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Family:           | Sensor / Actuator Connectors            |
| Product Sub Family:       | M12 Insert                              |
| Mating Side:              | M12                                     |
| Connecting Side:          | Solder Contacts                         |
| Brand:                    | Hirschmann                              |
| Connector Type:           | Receptacle                              |
| Type of Contact / Gender: | Male                                    |
| Connector Design:         | Insert with O-ring and External Threads |
| Number of Pins:           | 4                                       |
| Coding:                   | A                                       |
| Attachment Type:          | Screw-Locking                           |
| Rated Voltage:            | 250 V                                   |
| Rated Impulse Voltage:    | 2.5 kV                                  |
| Operating Voltage:        | 230 V AC/DC                             |
| Rated Current*:           | 4 A                                     |
| Contact Resistance:       | ≤ 10 mOhm                               |
| Insulation Resistance:    | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles:            | ≤ 20                                    |
| Type of Connection:       | Solder                                  |

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Suitable Conductor Cross Section: | Solid wires: 0.22 mm² to 0.5 mm² / Standed wires: 0.22 mm² to 0.38 mm² |
| Ambient Temperature (Operation)*: | - 25 °C - + 90 °C                                                      |
| Protection Degree / IP Rating**:  | IP65, IP67, IP68 (1 m / 24 h)                                          |
| Design Standard:                  | IEC 61076-2-101                                                        |
| Pollution Degree:                 | 3 acc. to DIN EN 60664-1 (VDE 0110-1)                                  |
| Clearance / Creepage Distance:    | DIN EN 60664-1 (2008/01); VDE 0110-1                                   |
| Overvoltage Category:             | II acc. to DIN EN 60664-1 (VDE 0110-1)                                 |

Materials

|                                      |           |
|--------------------------------------|-----------|
| Contact Base Material:               | CuZn      |
| Contact Plating:                     | Cu/Sn     |
| Contact Bearer Material:             | PA        |
| Contact Bearer Color:                | Grey      |
| Flammability Class (Contact Bearer): | UL 94 V-2 |
| Potted:                              | No        |
| Attachment Material:                 | PA        |
| O-Ring Material:                     | FKM       |

Additional Technical Data

|                                |                                 |
|--------------------------------|---------------------------------|
| Fastening Torque (Attachment): | M 12x1: (50-60) Ncm, hand-tight |
|--------------------------------|---------------------------------|

Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | yes |
|-----------------|-----|

Notes

|                                     |                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note Derating:                      | * Notice derating                                                                                                                                                                                                                                            |
| Protection Degree / IP Rating Note: | * only if mounted and locked in combination with Hirschmann / Lumberg connector. On the installation side tightness has to be assured by taking proper measures.                                                                                             |
| Note:                               | The receptacle connector is constructively intended for usage in IP67 and IP68-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101. Connection area must be epoxy potted. |

Variants

| Item #    | Item Description |
|-----------|------------------|
| 931902206 | ELST 412 Sn grau |

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