



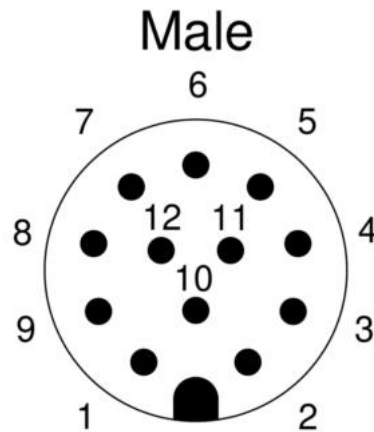
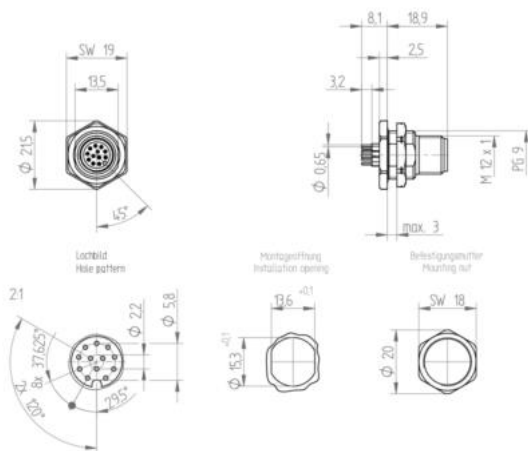
**Product:** [RSHL 12/S 5,5](#) 

M12 Standard Sensor/Actuator Receptacle Connector: Male, rear mount, M12 - mating side, print contacts - connecting side, 12-pin, A-coded, unshielded, metallic grey housing, 30 V AC/DC, 1.5 A

## Product Description

M12 Standard Sensor/Actuator Receptacle Connector: Male, rear mount, M12 - mating side, print contacts - connecting side, 12-pin, A-coded, unshielded, metallic grey housing, 30 V AC/DC, 1.5 A

## Technical Drawing



## Technical Specifications

## Technical Data

|                           |                              |
|---------------------------|------------------------------|
| Product Family:           | Sensor / Actuator Connectors |
| Product Sub Family:       | M12 Standard                 |
| Mating Side:              | M12                          |
| Connecting Side:          | Print Contacts               |
| Brand:                    | Lumberg Automation           |
| Connector Type:           | Receptacle                   |
| Type of Contact / Gender: | Male                         |
| Connector Design:         | Rear Mount                   |
| Number of Pins:           | 12                           |
| Coding:                   | A                            |
| Attachment Type:          | Screw-Locking                |
| Rated Voltage:            | 30 V                         |
| Rated Voltage (UL):       | 30 V AC/DC                   |
| Rated Impulse Voltage:    | 0.8 kV                       |
| Operating Voltage:        | 30 V AC/DC                   |
| Rated Current*:           | 1.5 A                        |
| Rated Current (UL)*:      | 2 A                          |
| Contact Resistance:       | ≤ 10 mOhm                    |
| Insulation Resistance:    | > 10^9 Ohm                   |

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Mating Cycles:                    | ≤ 100                                   |
| Type of Connection:               | PCB                                     |
| Thread Size:                      | PG9                                     |
| Thread Material:                  | CuZn                                    |
| Thread Plating:                   | Nickel-plated                           |
| Ambient Temperature (Operation)*: | - 25 °C - + 85 °C                       |
| Operating Temperature (UL):       | max. + 50 °C                            |
| Protection Degree / IP Rating**:  | IP65, IP67                              |
| Design Standard:                  | In style of 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:             | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

|                                      |               |
|--------------------------------------|---------------|
| Contact Base Material:               | CuZn          |
| Contact Plating:                     | Cu/Au         |
| Contact Bearer Material:             | TPU-GF        |
| Contact Bearer Color:                | Orange        |
| Flammability Class (Contact Bearer): | UL 94 HB      |
| Potted:                              | Yes           |
| Housing Material:                    | CuZn          |
| Housing Plating:                     | Nickel-plated |
| Housing Color:                       | Silver        |
| Attachment Material:                 | CuZn          |
| Attachment Plating:                  | Nickel-plated |
| O-Ring Material:                     | FKM           |

Additional Technical Data

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

Approvals

|          |         |
|----------|---------|
| UL-File: | E315587 |
| UL:      | cURus   |

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-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. |
| UL Note:                            | The receptacle connector is constructively intended for usage in IP67-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101                                        |

Variants

| Item # | Item Description |
|--------|------------------|
| 107209 | RSHL 12/S 5,5    |

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