



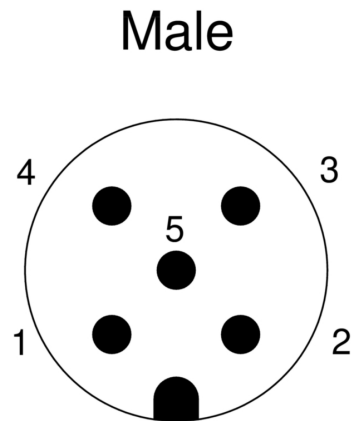
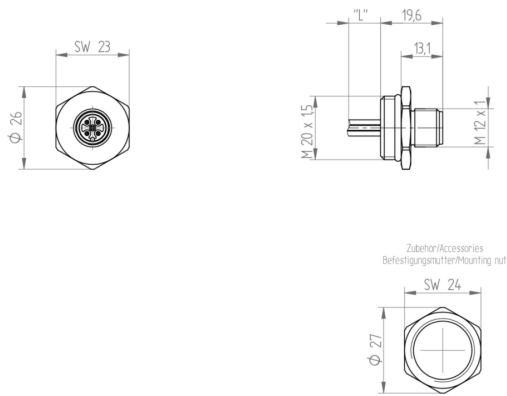
**Product:** [RSFM 5/20 M](#)

M12 Standard Sensor/Actuator Receptacle Connector: Male, front mount, M12 - mating side, stranded wires - connecting side, 5-pin, A-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

### Product Description

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### Technical Drawing



### Technical Specifications

#### Face View

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5        |
|-------|-------|-------|-------|--------------|
| brown | white | blue  | black | green-yellow |

#### Technical Data

|                           |                              |
|---------------------------|------------------------------|
| Product Family:           | Sensor / Actuator Connectors |
| Product Sub Family:       | M12 Standard                 |
| Mating Side:              | M12                          |
| Connecting Side:          | Stranded Wires               |
| Brand:                    | Lumberg Automation           |
| Connector Type:           | Receptacle                   |
| Type of Contact / Gender: | Male                         |
| Connector Design:         | Front Mount                  |
| Number of Pins:           | 5                            |
| Coding:                   | A                            |
| Attachment Type:          | Screw-Locking                |
| Rated Voltage:            | 60 V                         |
| Rated Voltage (UL):       | 30 V AC/DC                   |
| Rated Impulse Voltage:    | 1.5 kV                       |
| Operating Voltage:        | 50 V AC / 60 V DC            |
| Rated Current*:           | 4 A                          |

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| Rated Current (UL)*:              | 4 A                                                         |
| Contact Resistance:               | ≤ 10 mOhm                                                   |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                                       |
| Mating Cycles:                    | ≤ 100                                                       |
| Type of Connection:               | Solder                                                      |
| Thread Size:                      | M20x1.5                                                     |
| Ambient Temperature (Operation)*: | - 25 °C - + 85 °C                                           |
| Operating Temperature (UL):       | max. + 50 °C                                                |
| Protection Degree / IP Rating**:  | IP65, IP67                                                  |
| Design Standard:                  | Pin assignment deviating from IEC 61076-2-101 and IEC 61140 |
| 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:             | PA            |
| Contact Bearer Color:                | Black         |
| Flammability Class (Contact Bearer): | UL 94 V-0     |
| Potted:                              | Yes           |
| Housing Material:                    | CuZn          |
| Housing Plating:                     | Nickel-plated |
| Housing Color:                       | Silver        |
| Attachment Material:                 | CuZn          |
| Attachment Plating:                  | Nickel-plated |
| O-Ring Material:                     | CR            |

Additional Technical Data

|                                  |                                  |
|----------------------------------|----------------------------------|
| Fastening Torque (Attachment):   | M 12x1: (50-60) Ncm, hand-tight  |
| Accessories to Order Separately: | 000-025-048 Mounting Nut M20x1.5 |

Cable Data

|                                           |                                                           |
|-------------------------------------------|-----------------------------------------------------------|
| Cable Number:                             | 908 09 / 908 43                                           |
| Conductor Size:                           | 4x0.355 mm²+1x0.50 mm²(GNYYE)                             |
| Number of Wires:                          | 5                                                         |
| Conductor material:                       | Cu                                                        |
| Wire Insulation Material:                 | PVC                                                       |
| Insulated Wire Diameter:                  | ø 1.55 mm ± 0.1 mm / ø 1.8 mm ± 0.1 mm (GNYYE)            |
| Ambient Temperature (Fixed Installation): | - 40 °C - + 90 °C                                         |
| Ambient Temperature (Flex Installation):  | - 20 °C - + 90 °C                                         |
| UL Cable Type:                            | AWM: 1007+1679 (GNYYE)                                    |
| Flammability Class (Cable Jacket):        | DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL-VW1 |
| Core Colors:                              | black, white, blue, brown, yellow/green                   |

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 | Cable Length |
|--------|------------------|--------------|
| 107959 | RSFM 5/20/0,1 M  | 0.1 m        |
| 26148  | RSFM 5/20/0,5 M  | 0.5 m        |
| 8876   | RSFM 5/20/2 M    | 2 m          |

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