



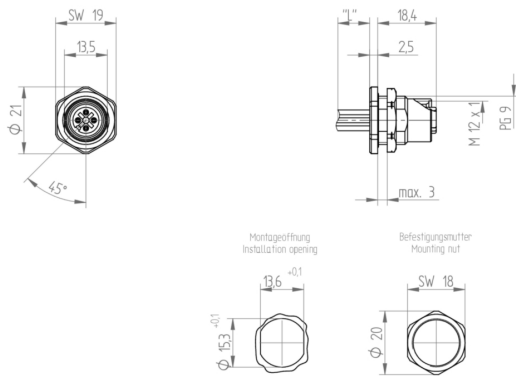
Product: [RKH 4 M](#)

M12 Standard Sensor/Actuator Receptacle Connector: Female, rear mount, M12 - mating side, stranded wires - connecting side, 4-pin, A-coded, unshielded, metallic grey housing, 230 V AC/DC, 4 A

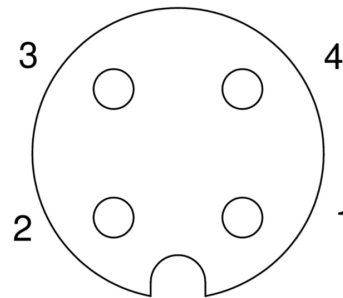
Product Description

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Technical Drawing



Female



Technical Specifications

Face View

| Pin 1 | Pin 2 | Pin 3 | Pin 4 |
|-------|-------|-------|-------|
| brown | white | blue | black |

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: | Female |
| Connector Design: | Rear Mount |
| Number of Pins: | 4 |
| Coding: | A |
| Attachment Type: | Screw-Locking |
| Rated Voltage: | 250 V |
| Rated Voltage (UL): | 300 V AC/DC |
| Rated Impulse Voltage: | 2.5 kV |
| Operating Voltage: | 230 V AC/DC |
| Rated Current*: | 4 A |

| | |
|-----------------------------------|--|
| Rated Current (UL)*: | 4 A |
| Contact Resistance: | ≤ 10 mOhm |
| Insulation Resistance: | > 10 ⁹ Ohm |
| Mating Cycles: | ≤ 100 |
| Type of Connection: | Crimp |
| 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, IP69K |
| 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: | II acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

| | |
|--------------------------------------|---------------|
| Contact Base Material: | CuSn |
| Contact Plating: | Cu/Au |
| Contact Bearer Material: | TPU |
| Contact Bearer Color: | Black |
| 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 |
|--------------------------------|---------------------------------|

Cable Data

| | |
|---|--|
| Cable Number: | 908 43 |
| Conductor Size: | 0.355 mm ² |
| Number of Wires: | 4 |
| Conductor material: | Cu |
| Wire Insulation Material: | PVC |
| Insulated Wire Diameter: | ø 1.55 mm ± 0.1 mm |
| Ambient Temperature (Fixed Installation): | - 40 °C - + 90 °C |
| Ambient Temperature (Flex Installation): | - 20 °C - + 90 °C |
| UL Cable Type: | AWM: 1007 |
| Flammability Class (Cable Jacket): | DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL-VW1, CSA-FT1 |
| Core Colors: | blue,brown, white, black |

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 and IP69K-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101. |
| 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 |
|--------|------------------|--------------|
| 61486 | RKH 4/0,5 M | 0.5 m |
| 6480 | RKH 4/0,7 M | 0.7 m |
| 108692 | RKH 4/1 M | 1 m |

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