



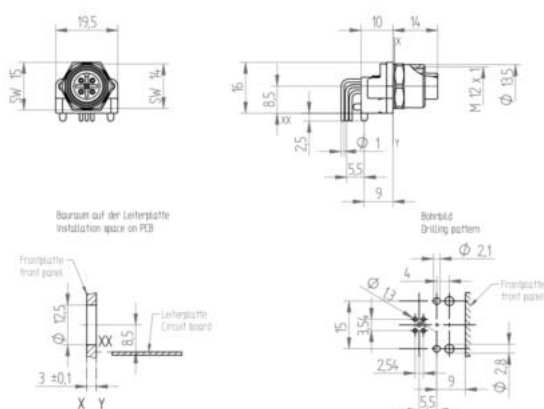
**Product:** [EF12LW5A Au](#) 

M12 Standard Sensor/Actuator Receptacle Connector: Female, rear mount, M12 - mating side, angled print contacts - connecting side, 5-pin, A-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

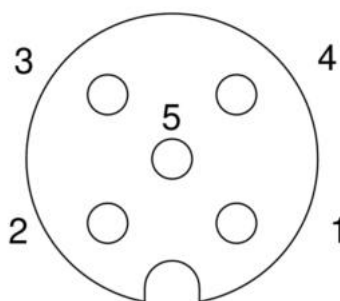
## Product Description

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## Technical Drawing



Female



## Technical Specifications

## Technical Data

|                           |                              |
|---------------------------|------------------------------|
| Product Family:           | Sensor / Actuator Connectors |
| Product Sub Family:       | M12 Standard                 |
| Mating Side:              | M12                          |
| Connecting Side:          | Angled Print Contacts        |
| Brand:                    | Hirschmann                   |
| Connector Type:           | Receptacle                   |
| Type of Contact / Gender: | Female                       |
| Connector Design:         | Rear Mount                   |
| Number of Pins:           | 5                            |
| Coding:                   | A                            |
| Attachment Type:          | Screw-Locking                |
| Rated Voltage:            | 60 V                         |
| Rated Impulse Voltage:    | 1.5 kV                       |
| Operating Voltage:        | 50 V AC / 60 V DC            |
| Rated Current*:           | 4 A                          |
| Contact Resistance:       | ≤ 10 mOhm                    |
| Insulation Resistance:    | > 10^9 Ohm                   |
| Mating Cycles:            | ≤ 100                        |
| Type of Connection:       | PCB                          |

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Thread Material:                  | CuZn                                    |
| Thread Plating:                   | Nickel-plated                           |
| Ambient Temperature (Operation)*: | - 25 °C - + 90 °C                       |
| Protection Degree / IP Rating**:  | IP65, IP67, IP68 (1 m / 24 h)           |
| 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:             | PA-GK         |
| Contact Bearer Color:                | Black         |
| Flammability Class (Contact Bearer): | UL 94 HB      |
| Potted:                              | No            |
| 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 |
|--------------------------------|---------------------------------|

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. |

Variants

| Item #    | Item Description |
|-----------|------------------|
| 933821200 | EF12LW5A Au      |

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