

## Product range overview

| Function   | Electrical connection | Type           | Cable connector | Design  | → Page/Internet |
|------------|-----------------------|----------------|-----------------|---|-----------------|
| Round plug | <b>Plug</b>           |                |                 |   |                 |
|            | M8, 3-pin             | SEA-3GS-M8-S   | PG7             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 2               |
|            |                       | SEA-GS-M8      | PG7             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Solder lug</li> </ul>                        | 2               |
|            | M12, 4-pin            | SEA-GS-7       | PG7             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 4               |
|            |                       | SEA-GS-9       | PG9             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 4               |
|            |                       | SEA-GS-11-DUO  | PG11            | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 4               |
|            |                       | SEA-GS-HAR     | PG9             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Insulation displacement connector</li> </ul> | 4               |
|            |                       | SEA-4GS-7-2.5  | PG7             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 4               |
|            | M12, 5-pin            | SAE-M12-5GS    | PG7             | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 6               |
|            |                       | SEA-5GS-11-DUO | PG11            | <ul style="list-style-type: none"> <li>• Straight</li> <li>• Screw terminal</li> </ul>                    | 6               |

## Datasheet

**Plug**  
**SEA-GS-M8**

- Sensor plug for inputs/outputs
- Can be assembled with any cable lengths
- 3-pin
- With screw terminals or soldered connection



| General technical data                      |                            |  |
|---|----------------------------|--|
| Type  | SEA-GS-M8                  | SEA-3GS-M8-S   |
| Based on standard                           | EN 61076-2-101<br>EN 61984 | –  |
| Conforms to                                 | –                          | EN 61076-2-104<br>EN 61984                                   |
| Electrical connection 2                     |                            |  |
| Connection type                             | Plug                       | Plug   |
| Cable outlet                                | Straight                   | Straight   |
| Design                                      | –                          | Round  |
| Connection technology                       | M8x1                       | M8x1 A-coded to EN 61076-2-104                               |
| Number of pins/wires                        | 3-pin                      | 3  |
| Type of mounting                            | –                          | Screw-type lock with hexagon A/F 9 mm and longitudinal knurl |
| Electrical connection 2                     |                            |  |
| Function                                    | –                          | Controller side  |
| Connection technology                       | Solder connection          | Screw terminal   |
| Number of pins/wires                        | –                          | 8  |
| Cable connector                             | Pg7                        | Pg7  |
| Cable diameter [mm]                         | –                          | 2.5 ... 5  |
| Approved cable diameter [mm]                | 3.5 ... 5                  | –  |
| Nominal conductor cross section [g]         | –                          | 0.14 ... 0.5 mm <sup>2</sup>                                 |
| Connection cross section [mm <sup>2</sup> ] | 0.25 mm <sup>2</sup>       | –  |
| Type of mounting                            | Via threaded sleeve        | –  |
| Mounting position                           | Any                        | Any  |
| Degree of protection                        | IP67                       | IP65   |
| Note on degree of protection                | –                          | In mounted state   |
| Product weight [g]                          | 9                          | 6  |

| Technical data – Electrics       |        |     |
|----------------------------------|--------|-----|
| Operating voltage range          | [V DC] | ≤60 |
|                                  | [V AC] | ≤60 |
| Surge resistance                 | [kV]   | 1.5 |
| Acceptable current load at 40 °C | [A]    | 3   |
| Pollution degree                 |        | 3   |

| Materials                        |                     |                             |
|----------------------------------|---------------------|-----------------------------|
| Type                             | SEA-GS-M8           | SEA-3GS-M8-S                |
| Information on housing materials | PA                  |                             |
| Housing colour                   | Black               |                             |
| Information on contact materials | Gold-plated brass   |                             |
| Sealing material                 | –                   | NBR                         |
| Material of screw-type lock      | –                   | Nickel-plated die-cast zinc |
| Union nut material               | Nickel-plated brass | –                           |
| Note on materials                | RoHS-compliant      |                             |
| LABS (PWIS) conformity           | VDMA24364-B2-L      | VDMA24364-B2-L              |

## Datasheet

| Operating and environmental conditions                     |  |  |
|--|--|--|
| Type   | SEA-GS-M8                                  | SEA-3GS-M8-S                               |
| Ambient temperature [°C]                                   | -40 ... +85                                | -40 ... +85                                |
| Corrosion resistance class CRC <sup>1)</sup>               | 2  | 1  |
| CE marking (see declaration of conformity) <sup>2)</sup>   | To EU Low Voltage Directive                | To EU Low Voltage Directive                |
| UKCA marking (see declaration of conformity) <sup>2)</sup> | To UK regulations for electrical equipment | To UK regulations for electrical equipment |

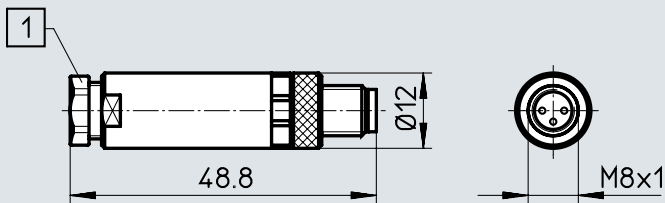
- 1) Corrosion resistance class CRC 1 to Festo standard FN 940070  
 Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).  
 Corrosion resistance class CRC 2 to Festo standard FN 940070  
 Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

- 2) Additional information: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

### Dimensions

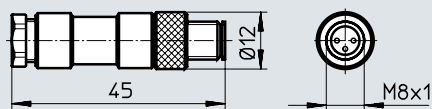
Download CAD data → [www.festo.com](http://www.festo.com)

#### SEA-3GS-M8-S



- [1] Cable connector:  
 – Black for cable 4 ... 5 mm  
 – Blue for cable 2.5 ... 4 mm

#### SEA-GS-M8



| Type         | D1   | D2<br>∅ | D3<br>∅ | L1 | L2 | ≈G1 |
|--------------|------|---------|---------|----|----|-----|
| SEA-3GS-M8-S | M8x1 | 11.5    | 11.8    | 48 | 2  | 9   |

### Ordering data

| Electrical connection 1       | Electrical connection 2 | Cable connector | Pack size | Part no. | Type         |
|-------------------------------|-------------------------|-----------------|-----------|----------|--------------|
| Straight plug, M8x1,<br>3-pin | Screw terminal          | Pg7             | 1         | 192009   | SEA-3GS-M8-S |
|                               | Solder lug              | Pg7             | –         | 18696    | SEA-GS-M8    |

## Datasheet

- Plug**
- Sensor plug for inputs/outputs
- SEA-GS**
- Can be assembled with any cable lengths
- SEA-GS-HAR**
- 4-pin
- SEA-4GS**
- Wire cross section up to 0.75 mm<sup>2</sup>



| General technical data                             |   |                     |                     |                     |                                   |       |
|--|---|---------------------|---------------------|---------------------|-----------------------------------|-------|
| Type   | SEA-GS-7                                | SEA-4GS-7-2.5       | SEA-GS-9            | SEA-GS-11-DUO       | SEA-GS-HAR-4POL                   |       |
| Based on standard                                  | EN 61076-2-101                          | EN 61076-2-101      | EN 61076-2-101      | EN 61076-2-101      | EN 61076-2-101                    |       |
|  | –                                       | EN 61984            | EN 61984            | EN 61984            | EN 61984                          |       |
| Type of mounting                                   | Via threaded sleeve                     | Via threaded sleeve | Via threaded sleeve | Via threaded sleeve | Via thread                        |       |
| Mounting position                                  | –                                       | Any                 | Any                 | Any                 | Any                               |       |
| Product weight [g]                                 | 17                                      | 18                  | 18                  | 24                  | 11.5                              |       |
| Electrical connection 1                            |   |                     |                     |                     |                                   |       |
| Connection type                                    | Plug                                    | Plug                | Plug                | Plug                | Plug                              |       |
| Cable outlet                                       | Straight                                | Straight            | Straight            | Straight            | Straight                          |       |
| Design   | Round                                   | –                   | –                   | –                   | –                                 |       |
| Connection technology                              | M12x1, A-coded, to EN 61076-2-101       | M12x1, type A       | M12x1, type A       | M12x1, type A       | M12x1                             |       |
| Number of pins/wires                               | 4                                       | 4                   | 4                   | 4                   | 4                                 |       |
| Type of mounting                                   | Screw-type lock with longitudinal knurl | –                   | –                   | –                   | –                                 |       |
| Electrical connection 2                            |   |                     |                     |                     |                                   |       |
| Connection technology                              | Screw terminal                          | Screw terminal      | Screw terminal      | Screw terminal      | Insulation displacement connector |       |
| Number of pins/wires                               | 4                                       | –                   | –                   | –                   | –                                 |       |
| Permissible insulating sheath                      | –                                       | –                   | –                   | –                   | PVC                               |       |
| Cable connector                                    | Pg7                                     | Pg7                 | Pg9                 | Pg11                | Pg9                               |       |
| Cable diameter [mm]                                | 3.3 ... 6                               | –                   | –                   | –                   | –                                 |       |
| Approved cable diameter [mm]                       | 4 ... 6                                 | 2.5 ... 2.9         | 6 ... 8             | 2 x 3 or 2 x 5      | 4 ... 5.1                         |       |
| Nominal conductor cross section [mm <sup>2</sup> ] | 0.14 ... 0.75                           | –                   | –                   | –                   | –                                 |       |
| Connection cross section [mm <sup>2</sup> ]        | –                                       | 0.14 ... 0.5        | 0.75                | 0.75                | 0.25 ... 0.5                      |       |
| Wire diameter [mm]                                 | –                                       | –                   | –                   | –                   | 1.2 ... 1.6                       |       |
| Individual wire diameter [mm]                      | –                                       | –                   | –                   | –                   | 0.1                               |       |
| Technical data – Electrics                         |   |                     |                     |                     |                                   |       |
| Type   | SEA-GS-7                                | SEA-4GS-7-2.5       | SEA-GS-9            | SEA-GS-11-DUO       | SEA-GS-HAR-4POL                   |       |
| Operating voltage range                            | [V DC]                                  | 0 ... 250           | <= 250              | <= 250              | <= 250                            | <= 32 |
|  | [V AC]                                  | 0 ... 250           | <= 250              | <= 250              | <= 250                            | <= 32 |
| Surge resistance [kV]                              | 2.5                                     | 2.5                 | 2.5                 | 2.5                 | 0.8                               |       |
| Acceptable current load at 40 °C [A]               | 4                                       | 4                   | 4                   | 4                   | 4                                 |       |
| Materials  |   |                     |                     |                     |                                   |       |
| Type   | SEA-GS-7                                | SEA-4GS-7-2.5       | SEA-GS-9            | SEA-GS-11-DUO       | SEA-GS-HAR-4POL                   |       |
| Housing  | PBT                                     | PA                  | PBT                 | PBT                 | Die-cast zinc<br>Nickel-plated    |       |
| Housing colour                                     | Black                                   | Black               | Black               | Black               | –                                 |       |
| Screw-type lock                                    | PBT                                     | –                   | –                   | –                   | –                                 |       |
| Union nut  | –                                       | PA                  | PBT                 | PBT                 | –                                 |       |
| Seals  | CR                                      | –                   | –                   | –                   | –                                 |       |
|  | FPM                                     | –                   | –                   | –                   | –                                 |       |
| Pin contacts                                       | Brass                                   | Brass               | Brass               | Brass               | –                                 |       |
|  | Coated white bronze                     | Coated white bronze | Coated white bronze | Coated white bronze | –                                 |       |
| Note on materials                                  | RoHS-compliant                          | RoHS-compliant      | RoHS-compliant      | RoHS-compliant      | RoHS-compliant                    |       |
| LABS (PWIS) conformity                             | VDMA24364-B2-L                          | VDMA24364-B2-L      | VDMA24364-B2-L      | VDMA24364-B2-L      | –                                 |       |

## Datasheet

| Operating and environmental conditions                     |  |  |  |  |                 |
|--|--|--|--|--|-----------------|
| Type   | SEA-GS-7                                   | SEA-4GS-7-2.5                              | SEA-GS-9                                   | SEA-GS-11-DUO                              | SEA-GS-HAR-4POL |
| Ambient temperature [°C]                                   | -40 ... 85                                 | -40 ... 85                                 | -40 ... 85                                 | -40 ... 85                                 | -25 ... 85      |
| Corrosion resistance class CRC <sup>1)</sup>               | 2  | 2  | 2  | 2  | 2               |
| CE marking (see declaration of conformity) <sup>2)</sup>   | To EU Low Voltage Directive                | To EU Low Voltage Directive                | To EU Low Voltage Directive                | To EU Low Voltage Directive                | –               |
| UKCA marking (see declaration of conformity) <sup>2)</sup> | To UK regulations for electrical equipment | To UK regulations for electrical equipment | To UK regulations for electrical equipment | To UK regulations for electrical equipment | –               |
| Pollution degree   | 3  | 3  | 3  | 3  | 3               |
| Degree of protection                                       | IP67                                       | IP65                                       | IP67                                       | IP67                                       | IP67            |
| Note on degree of protection                               | In mounted state                           | –  | –  | –  | –               |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

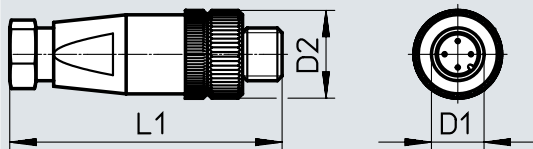
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

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## Dimensions

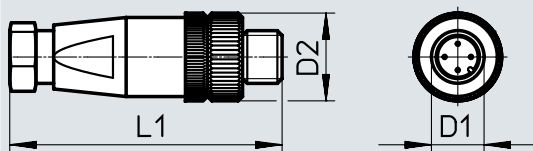
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## SEA-GS-7

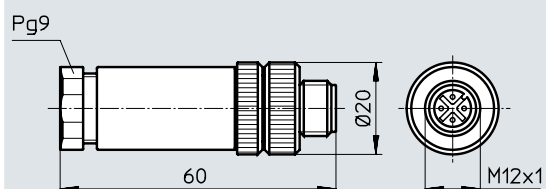


| Type     | D1    | D2<br>∅ | L1 |
|----------|-------|---------|----|
| SEA-GS-7 | M12x1 | 20      | 60 |

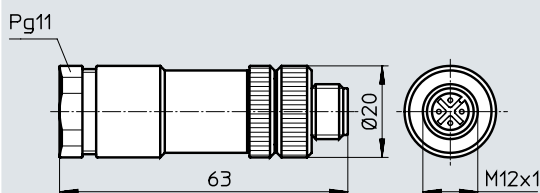
## SEA-4GS-7-2.5



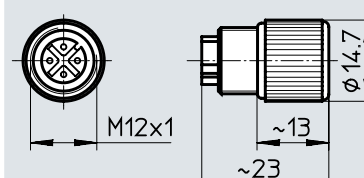
## SEA-GS-9



## SEA-GS-11-DUO



## SEA-GS-HAR



## Ordering data

| Electrical connection 1       | Electrical connection 2 | Cable connector | Permissible cable<br>∅<br>[mm] | Product weight<br>[g] | Part no. | Type          |
|-------------------------------|-------------------------|-----------------|--------------------------------|-----------------------|----------|---------------|
| Straight plug, M12x1<br>4-pin | Screw terminal          | Pg7             | 4 ... 6                        | 17                    | 18666    | SEA-GS-7      |
|                               |                         |                 | 2.5 ... 2.9                    | 18                    | 192008   | SEA-4GS-7-2.5 |
|                               |                         | Pg9             | 6 ... 8                        | 18                    | 18778    | SEA-GS-9      |
|                               |                         | Pg11            | 2 x 3 or 2 x 5                 | 24                    | 18779    | SEA-GS-11-DUO |

## Datasheet

**Plug**  
**SEA-M12-5GS**  
**SEA-5GS**

- Sensor plug for inputs/outputs
- Can be assembled with any cable lengths
- 5-pin
- Wire cross section up to 0.75 mm<sup>2</sup>



| General technical data                         |  |                          |
|--|--|--------------------------|
| Type   | SEA-M12-5GS-PG7                                      | SEA-5GS-11-DUO           |
| Electrical connection                          | Straight plug (type A), 5-pin<br>M12, screw terminal |                          |
| Type of mounting                               | Via threaded sleeve                                  |                          |
| Max. tightening torque of screw-type lock [Nm] | 0.5  |                          |
| Mounting position                              | Any  |                          |
| Permissible cable Ø [mm]                       | 4 ... 6  | 2 x 2.5 ... 2.9 or 2 x 5 |
| Connection cross section [mm <sup>2</sup> ]    | 0.75   | 0.14 ... 0.5             |
| Acceptable current load at 40 °C [A]           | 4  |                          |
| Surge resistance [kV]                          | 1.5  |                          |
| Operating voltage range                        | [V AC]   | 60                       |
|  | [V DC]   | 60                       |
| Degree of protection to EN 60529               | IP67 (assembled)                                     | IP65 (assembled)         |
| Based on standard                              | EN 61076-2-101, EN 61984                             |                          |

| Materials              |                                 |                |
|------------------------|---------------------------------|----------------|
| Type                   | SEA-M12-5GS-PG7                 | SEA-5GS-11-DUO |
| Housing colour         | Black                           |                |
| Housing                | PBT                             | PA             |
| Contacts               | Brass, coated with white bronze |                |
| Union nut              | Nickel-plated die-cast zinc     | PA             |
| Note on materials      | RoHS-compliant                  |                |
| LABS (PWIS) conformity | VDMA24364-B2-L                  |                |

| Operating and environmental conditions                     |  |  |
|--|--|--|
| Ambient temperature [°C]                                   | -40 ... +85                                |  |
| Corrosion resistance class CRC <sup>1)</sup>               | 2  |  |
| CE marking (see declaration of conformity) <sup>2)</sup>   | To EU Low Voltage Directive                |  |
| UKCA marking (see declaration of conformity) <sup>2)</sup> | To UK regulations for electrical equipment |  |
| Pollution degree   | 3  |  |

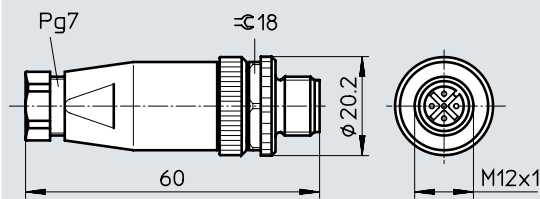
- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070  
 Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.
- 2) Additional information: [www.festo.com/catalogue/...](http://www.festo.com/catalogue/...) → Support/Downloads.

## Datasheet

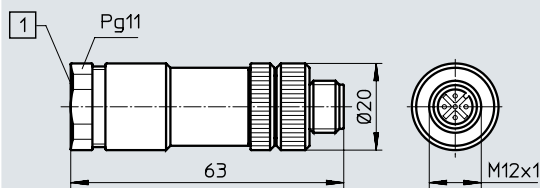
## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

SEA-M12-5GS-PG7



SEA-5GS-11-DUO



- [1] Included in the scope of delivery:
- 1 seal insert for 2 cables with a diameter of 2.5 ... 2.9 mm
  - 1 seal insert for 2 cables with a diameter of 5 mm
  - 1 cable binder

## Ordering data

| Electrical connection 1       | Electrical connection 2 | Cable connector | Product weight [g] | Part no.      | Type                   |
|-------------------------------|-------------------------|-----------------|--------------------|---------------|------------------------|
| Straight plug (type A), 5-pin | Screw terminal          | Pg7             | 21.5               | <b>175487</b> | <b>SEA-M12-5GS-PG7</b> |
|                               |                         | Pg11            | 24                 | <b>192010</b> | <b>SEA-5GS-11-DUO</b>  |

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