

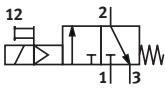
## On/off valve MS4N-EE

**FESTO**



Characteristics

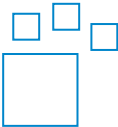
At a glance



Solenoid actuated on/off valve for pressurising and exhausting pneumatic systems

- Electric 3/2-way valve for pressurising and exhausting pneumatic systems
- A silencer can be attached or the exhaust air can be ducted at port 3
- Supply voltage 24 V DC, 110, 230 V AC
- Optionally with pressure gauge and pressure sensor
- With solenoid coil, without plug socket

Ordering data - modular system Link [ms4n-ee](#)



Configurable product  
This product and all its product options can be ordered online via the configurator.

Pneumatic connection

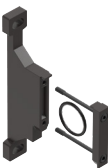
By installing connecting plates it is easier to replace the module if necessary (e.g. when using piping).

Pressure gauge alternatives

- Key features [AG]/[RG]: integrated pressure gauges
- Key features [A4]/[A8]: Adapter for pressure gauge
- Key features [O.D7]/[O.D.8]/[O.D.9]/[O.D.10]: simple pressure sensors for monitoring the system
- Key features [AD11]/[AD12]: functional pressure sensors for monitoring the system

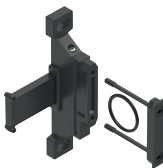
Type of mounting

[WP] Mounting bracket basic design



- For connecting the modules for wall mounting
- In combination with connecting plate for wall mounting an individual unit
- In conjunction with mounting plate MS-AEND or wall mounting a single device
- Same wall distance for combinations of series MS4 and MS6

[WPM] Mounting bracket for hooking in service unit components



- For connecting the modules for wall mounting
- In combination with connecting plate MS4-AG... for mounting an individual device on a wall
- Fast hooking and unhooking

[WB] Mounting centrally at rear (wall mounting top and bottom), connecting plates not required



- For wall mounting

[WBM] Mounting centrally at rear (wall mounting top), connecting plates not required



- For wall mounting

## Type code

|               |                                                                                                                   |  |
|---------------|-------------------------------------------------------------------------------------------------------------------|--|
| <b>001</b>    | <b>Series</b>                                                                                                     |  |
| <b>MS</b>     | MS series                                                                                                         |  |
| <b>002</b>    | <b>Size</b>                                                                                                       |  |
| <b>4</b>      | Grid dimension 40 mm                                                                                              |  |
| <b>003</b>    | <b>Thread type</b>                                                                                                |  |
| <b>N</b>      | NPT thread                                                                                                        |  |
| <b>004</b>    | <b>Function</b>                                                                                                   |  |
| <b>EE</b>     | On/off valve, electric                                                                                            |  |
| <b>005</b>    | <b>Pneumatic connection, inch</b>                                                                                 |  |
| <b>1/8</b>    | Female thread NPT 1/8                                                                                             |  |
| <b>1/4</b>    | Female thread NPT 1/4                                                                                             |  |
| <b>AQK</b>    | Sub-base NPT1/8                                                                                                   |  |
| <b>AQN</b>    | Sub-base NPT1/4                                                                                                   |  |
| <b>AQP</b>    | Sub-base NPT3/8                                                                                                   |  |
| <b>006</b>    | <b>Supply voltage</b>                                                                                             |  |
| <b>10V24</b>  | 24 V DC, 10 bar, connection pattern to EN 175301                                                                  |  |
| <b>10V24C</b> | 24 V DC, 10 bar (connection pattern to EN 175301) without manual override                                         |  |
| <b>10V24D</b> | 24V DC, 10 bar, M12 (connection pattern according to IEC 61076-2-101) without manual override                     |  |
| <b>10V24F</b> | 24 V DC, 10 bar, M12 (connection pattern to IEC 61076-2-101). Non-detenting manual override on the pilot actuator |  |
| <b>10V24P</b> | 24 V DC, 10 bar, M12 (connection pattern to IEC 61076-2-101)                                                      |  |
| <b>V24</b>    | 24 V DC (connection pattern to EN 175301)                                                                         |  |
| <b>V24P</b>   | 24 V DC plug, M12 socket adapter (connection pattern to IEC 61076-2-101)                                          |  |
| <b>V110</b>   | 110 V AC (connection pattern to EN 175301)                                                                        |  |
| <b>V230</b>   | 230 V AC (connection pattern to EN 175301)                                                                        |  |
| <b>007</b>    | <b>Silencer</b>                                                                                                   |  |
|               | None                                                                                                              |  |
| <b>S</b>      | Silencer                                                                                                          |  |

|             |                                                                                                     |  |
|-------------|-----------------------------------------------------------------------------------------------------|--|
| <b>008</b>  | <b>Pressure gauge alternatives</b>                                                                  |  |
|             | None                                                                                                |  |
| <b>A4</b>   | Adapter for EN pressure gauge 1/4, without pressure gauge                                           |  |
| <b>A8</b>   | Adapter for EN pressure gauge 1/8, without pressure gauge                                           |  |
| <b>AD7</b>  | Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O               |  |
| <b>AD8</b>  | Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C               |  |
| <b>AD9</b>  | Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O                        |  |
| <b>AD10</b> | Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C             |  |
| <b>AD11</b> | Pressure sensor with LCD display, M12 plug, 4-pin, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA |  |
| <b>AD12</b> | Pressure sensor with LCD display, M8 plug, 4-pin, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA  |  |
| <b>AG</b>   | MS pressure gauge                                                                                   |  |
| <b>RG</b>   | Integrated pressure gauge, red/green scale                                                          |  |

|            |                                         |  |
|------------|-----------------------------------------|--|
| <b>009</b> | <b>Alternative pressure gauge scale</b> |  |
|            | MS pressure gauge                       |  |
| <b>BAR</b> | bar                                     |  |
| <b>MPA</b> | MPa                                     |  |

|            |                                                                                           |  |
|------------|-------------------------------------------------------------------------------------------|--|
| <b>010</b> | <b>Type of mounting</b>                                                                   |  |
|            | Without mounting bracket                                                                  |  |
| <b>WB</b>  | Mounting centrally at rear (wall mounting top and bottom), connecting plates not required |  |
| <b>WBM</b> | Mounting centrally at rear (wall mounting top), connecting plates not required            |  |
| <b>WP</b>  | Mounting bracket basic design                                                             |  |
| <b>WPM</b> | Mounting bracket for hooking in service unit components                                   |  |

|            |                                   |  |
|------------|-----------------------------------|--|
| <b>011</b> | <b>Flow direction</b>             |  |
|            | Flow direction from left to right |  |
| <b>Z</b>   | Flow direction from right to left |  |

## Datasheet

## General technical data

|                                            |                                                    |         |
|--------------------------------------------|----------------------------------------------------|---------|
| Pneumatic connection, port 1 <sup>1)</sup> | 1/8 NPT                                            | 1/4 NPT |
| Pneumatic connection, port 2               | 1/8 NPT                                            | 1/4 NPT |
| Pneumatic connection, port 3               | G1/4                                               |         |
| Design                                     | Piston gate valve                                  |         |
| lap                                        | Overlap                                            |         |
| Type of mounting                           | Either:<br>Inline installation<br>With accessories |         |
| Mounting position <sup>2)</sup>            | Any                                                |         |
| Valve function                             | 3/2-way, single solenoid, closed                   |         |
| Exhaust-air function                       | Cannot be throttled                                |         |
| Manual override                            | Detenting, Non-detenting                           |         |
| Type of actuation                          | Electrical                                         |         |
| Type of reset                              | Mechanical spring                                  |         |
| Type of piloting                           | Piloted                                            |         |
| Pilot air supply                           | Internal                                           |         |
| Flow direction                             | Non-reversible                                     |         |

1) Via connecting plate [AQ...]: 1/8 NPT, 1/4 NPT or 3/8 NPT

2) Vertical mounting position for the on/off valve with pressure sensor, as no condensation must be allowed to accumulate in the pressure sensor.

## Electrical data

|                          |                                                   |                                                                |                                                                |
|--------------------------|---------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| Supply voltage           | 24 V DC, 10 bar, connection pattern to EN 175301  | 110 V AC (connection pattern to EN 175301)                     | 230 V AC (connection pattern to EN 175301)                     |
| Characteristic coil data | 24 V DC: 1.8 W                                    | 110 V AC: 50/60 Hz, pick-up power 3.0 VA, holding power 2.4 VA | 230 V AC: 50/60 Hz, pick-up power 3.0 VA, holding power 2.4 VA |
| Electrical connection    | Type C, Plug, To DIN EN 175301-803, Square design |                                                                |                                                                |
| Degree of protection     | IP65                                              |                                                                |                                                                |
| Duty cycle               | 100%                                              |                                                                |                                                                |

## Flow characteristics

|                                                                     |             |             |
|---------------------------------------------------------------------|-------------|-------------|
| Pneumatic connection, port 1                                        | 1/8 NPT     | 1/4 NPT     |
| Standard nominal flow rate (standardised to DIN 1343) <sup>1)</sup> | 1,000 l/min | 2,000 l/min |
| C value                                                             | 4.5 l/sbar  | 9.5 l/sbar  |
| b value                                                             | 0.5         | 0.44        |

1) Measured at p1 = 6 bar and p2 = 5 bar, Δp = 1 bar.

## Operating and environmental conditions

|                                              |                                                                                            |                                            |                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Supply voltage                               | 24 V DC, 10 bar, connection pattern to EN 175301                                           | 110 V AC (connection pattern to EN 175301) | 230 V AC (connection pattern to EN 175301) |
| Operating pressure                           | 4 ... 10 bar                                                                               | 4 ... 14 bar                               |                                            |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4], Inert gas                                       |                                            |                                            |
| Note on operating and pilot medium           | Lubricated operation possible (in which case lubricated operation will always be required) |                                            |                                            |
| Ambient temperature                          | -10 ... 50°C                                                                               | -10 ... 60°C                               |                                            |
| Media temperature                            | -10 ... 50°C                                                                               | -10 ... 60°C                               |                                            |
| Corrosion resistance class CRC <sup>1)</sup> | 2 - Moderate corrosion stress                                                              |                                            |                                            |
| Suitable for use with food <sup>2)</sup>     | See supplementary material information                                                     |                                            |                                            |

1) More information [www.festo.com/x/topic/crc](http://www.festo.com/x/topic/crc)

2) More information [www.festo.com/certificates/ms4-ee](http://www.festo.com/certificates/ms4-ee)

## Materials

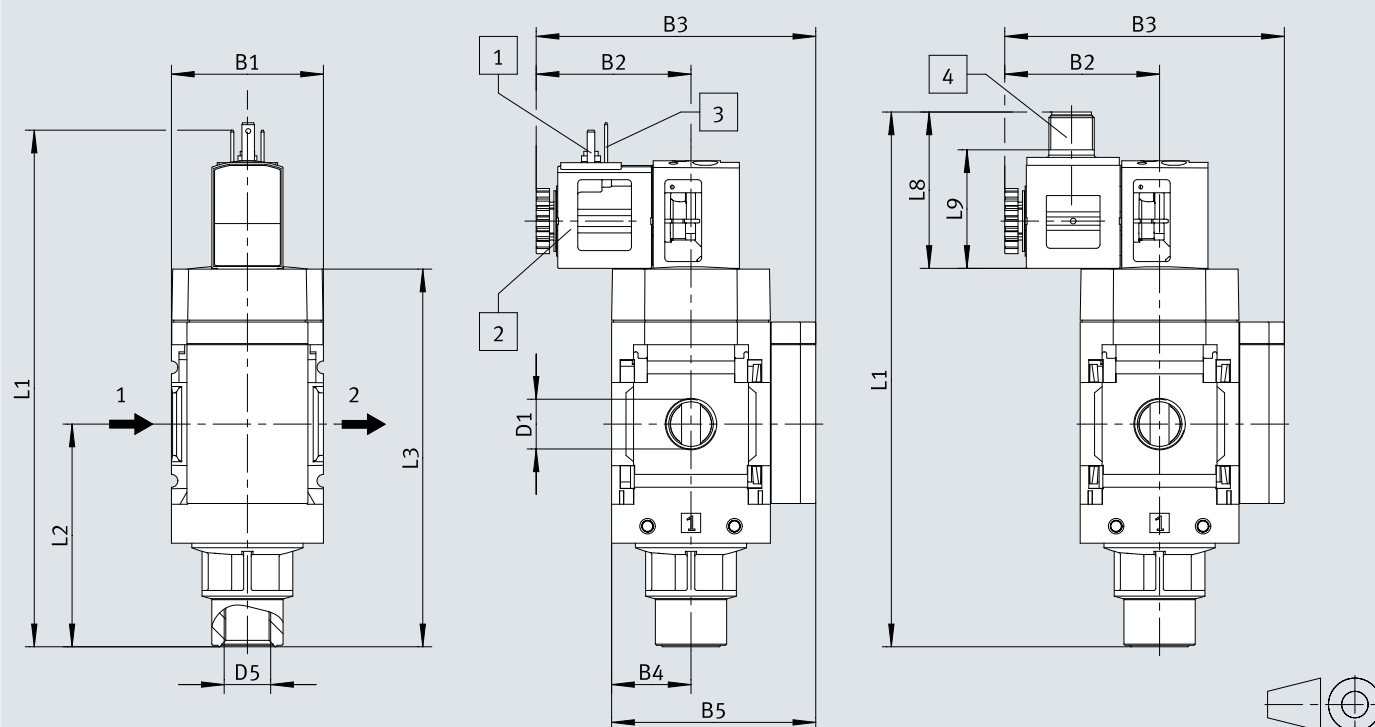
|                        |                    |
|------------------------|--------------------|
| Material housing       | Die-cast aluminium |
| Material seals         | NBR                |
| Note on materials      | RoHS compliant     |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L  |

## Dimensions

Dimensions – Basic type with female thread, with cover plate

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

10V24D/10V24F/(10)V24P



- [1] Plug connection according to EN 175301-803  
 [2] Solenoid actuator can be repositioned 180°, i.e. magnet faces forwards  
 [3] PIN only for solenoid actuators 110 V and 230 V  
 [4] Electrical connection M12x1 according to ISO 20401 suitable for EN 61076-2-101, 4-pin version for connecting cable NEBU M12  
 [5] 1 -> 2: Flow direction

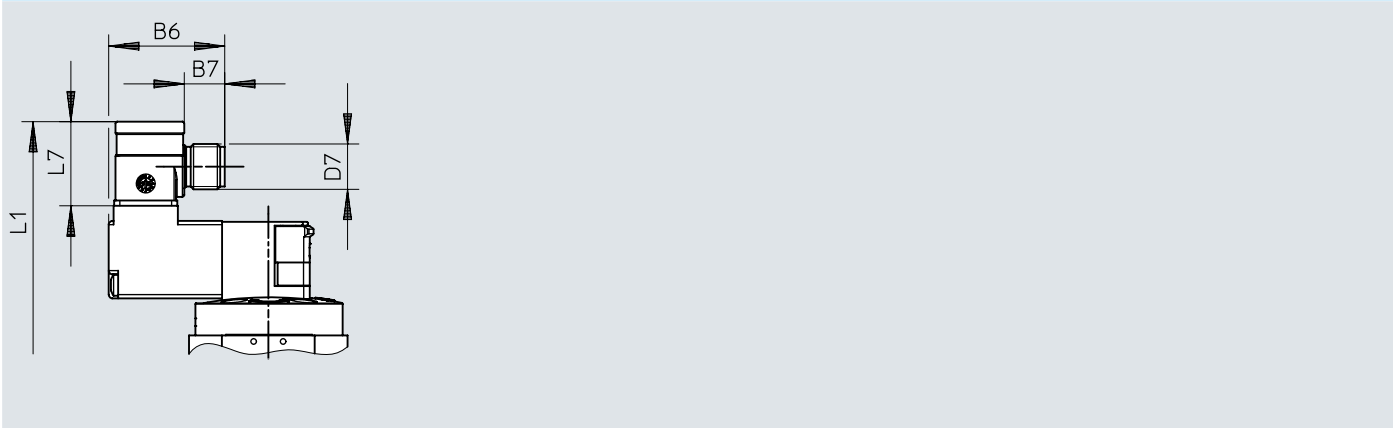
|             | B1     | B2     | B3     | B4     | B5     | D1      | D5   | L1                                                |                                    |
|-------------|--------|--------|--------|--------|--------|---------|------|---------------------------------------------------|------------------------------------|
|             | [inch] | [inch] | [inch] | [inch] | [inch] |         |      | [V24], [V110],<br>[V230],<br>[10V24],<br>[10V24C] | [10V24D],<br>[10V24F],<br>[10V24P] |
|             |        |        |        |        |        |         |      | [inch]                                            |                                    |
| MS4N-EE-1/8 | 1,58   | 1,61   | ~2,91  | 0,83   | 2,13   | 1/8 NPT | G1/2 | ~5,38                                             | 5,55                               |
| MS4N-EE-1/4 |        |        |        |        |        | 1/4 NPT |      |                                                   |                                    |

|             | L2     | L3     | L8                                          |                                 | L9                                          |                                 |
|-------------|--------|--------|---------------------------------------------|---------------------------------|---------------------------------------------|---------------------------------|
|             | [inch] | [inch] | [V24], [V110], [V230],<br>[10V24], [10V24C] | [10V24D], [10V24F],<br>[10V24P] | [V24], [V110], [V230],<br>[10V24], [10V24C] | [10V24D], [10V24F],<br>[10V24P] |
|             |        |        | [inch]                                      |                                 | [inch]                                      |                                 |
| MS4N-EE-1/8 | 2,32   | 3,93   | ~1,44                                       | 1,61                            | –                                           | 1,22                            |
| MS4N-EE-1/4 |        |        |                                             |                                 |                                             |                                 |

1) Measured with plug socket MSSD-EB (included in the scope of delivery).

Dimensions

Dimensions – Basic type with female thread, with cover plate, V24P Download CAD data [www.festo.com](http://www.festo.com)



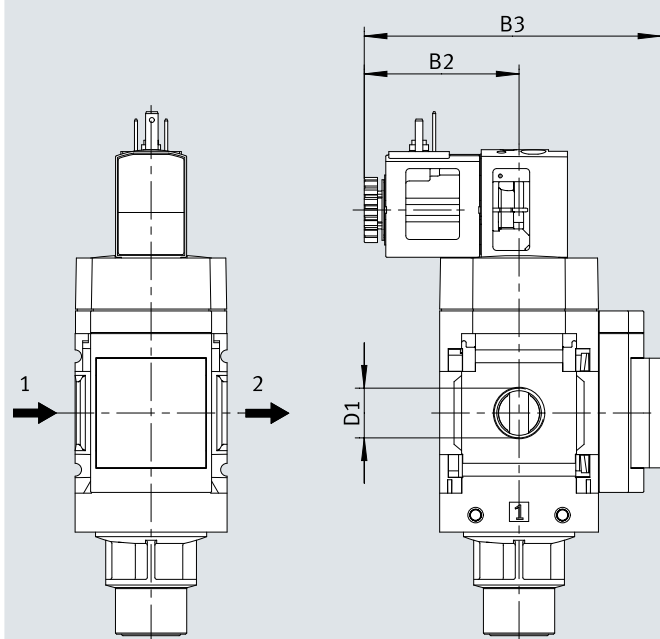
|             | B6<br>[inch] | B7<br>[inch] | D7    | L1<br>[inch]       | L7<br>[inch]       |
|-------------|--------------|--------------|-------|--------------------|--------------------|
| MS4N-EE-1/8 | 1,22         | 0,43         | M12x1 | 6,30 <sup>1)</sup> | 0,87 <sup>1)</sup> |
| MS4N-EE-1/4 |              |              |       |                    |                    |

1) Measured with plug socket MSSD-EB (included in the scope of delivery).

## Dimensions

Dimensions – Integrated MS pressure gauge with standard scale / Integrated MS pressure gauge with red/green scale

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



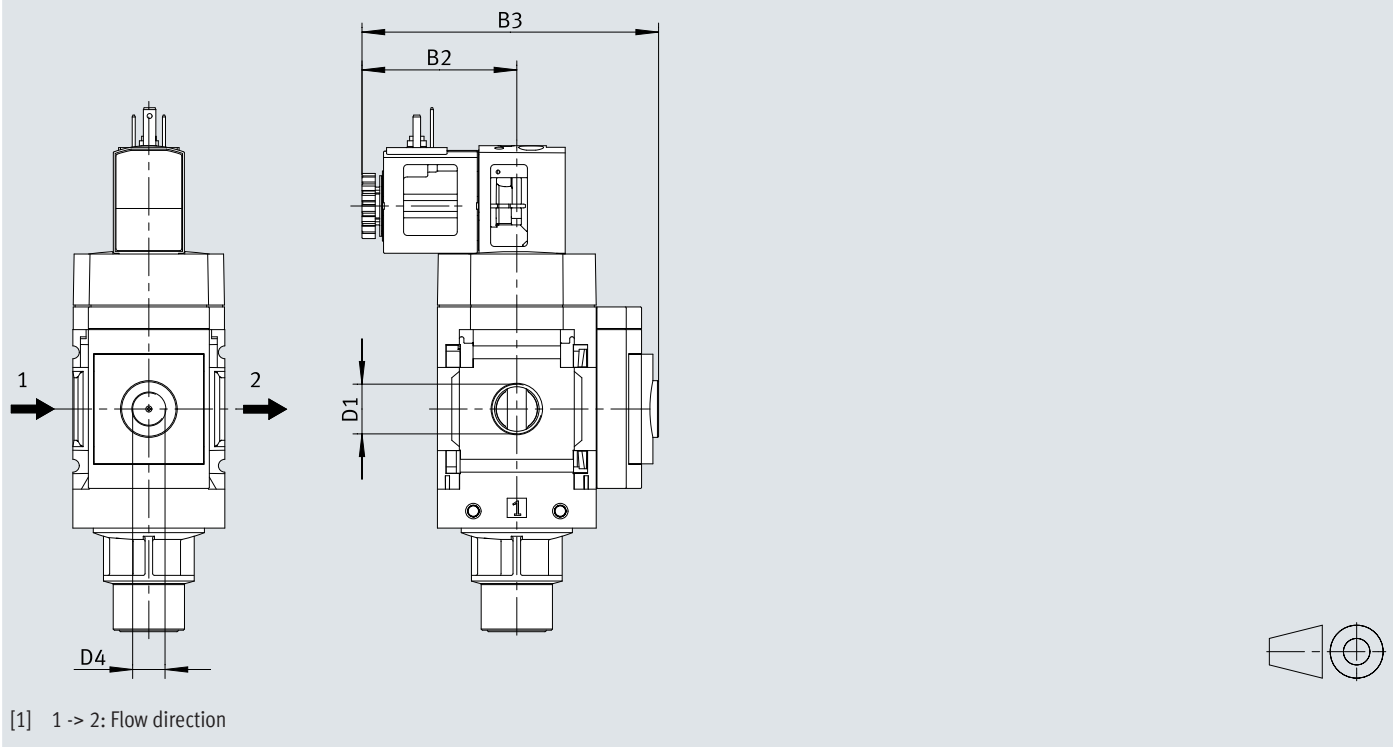
[1] 1 -> 2: Flow direction

|                    | B2<br>[inch] | B3<br>[inch] | D1      |
|--------------------|--------------|--------------|---------|
| MS4N-EE-1/8-...-AG | 1,61         | 3,03         | 1/8 NPT |
| MS4N-EE-1/4-...-AG |              |              | 1/4 NPT |
| MS4N-EE-1/8-...-RG |              | 3,09         | 1/8 NPT |
| MS4N-EE-1/4-...-RG |              |              | 1/4 NPT |

Dimensions

Dimensions – Adapter for EN pressure gauge 1/8, without pressure gauge / Adapter for EN pressure gauge 1/4, without pressure gauge

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

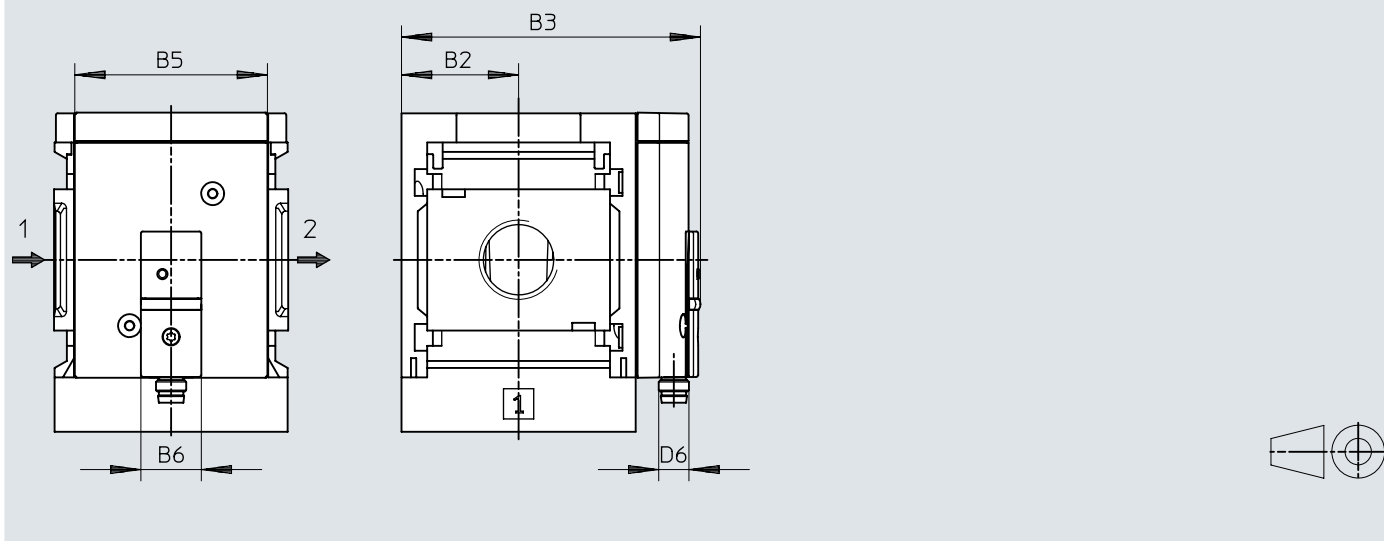


|                    | B2<br>[inch] | B3<br>[inch] | D1      |      |
|--------------------|--------------|--------------|---------|------|
| MS4N-EE-1/8-...-A8 | 1,61         | 3,09         | 1/8 NPT | G1/4 |
| MS4N-EE-1/4-...-A8 |              |              | 1/4 NPT |      |
| MS4N-EE-1/8-...-A4 |              |              | 1/8 NPT | G1/8 |
| MS4N-EE-1/4-...-A4 |              |              | 1/4 NPT |      |

## Dimensions

Dimensions – Pressure sensor with status indicator AD7, AD8, AD9, AD10

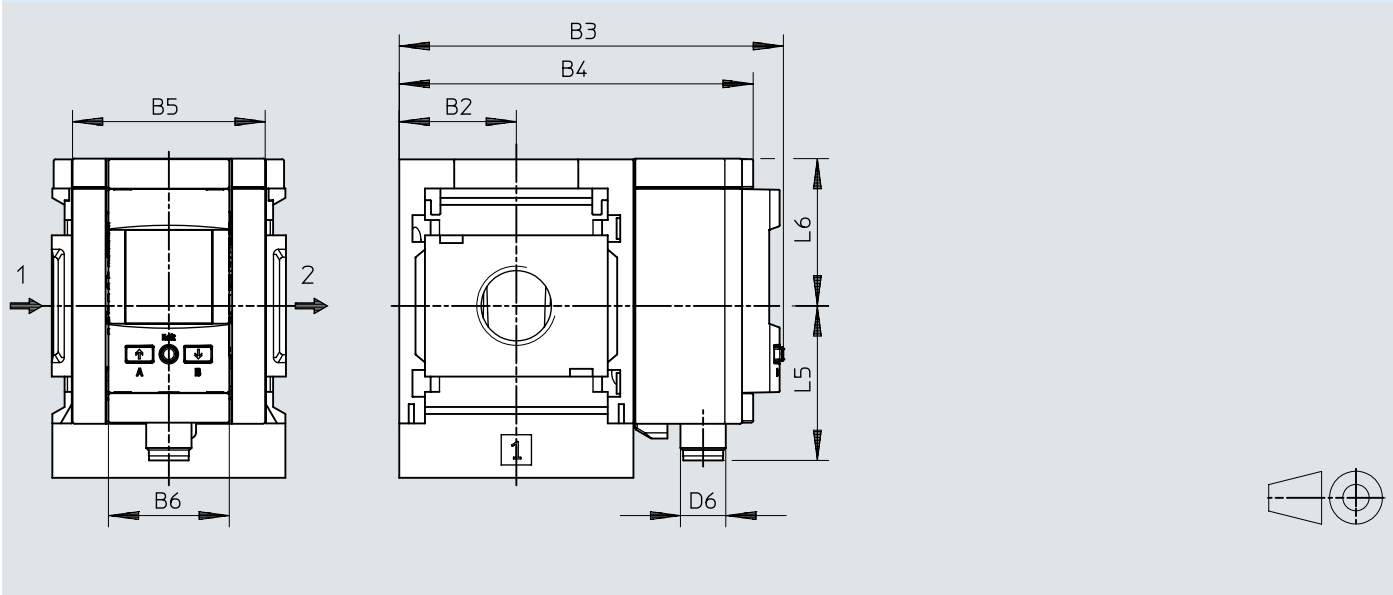
Download CAD data [www.festo.com](http://www.festo.com)



|                              | B2<br>[inch] | B3<br>[inch] | B5<br>[inch] | B6<br>[inch] | D6   |
|------------------------------|--------------|--------------|--------------|--------------|------|
| MS4N-...-AD7, AD8, AD9, AD10 | 0,83         | 2,33         | ~1,26        | 0,63         | M8x1 |

Dimensions

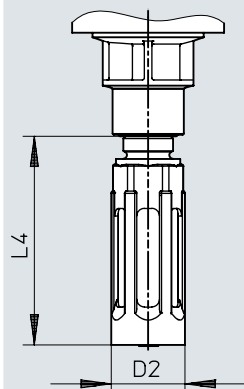
Dimensions – Pressure sensor with LCD display AD11, AD12 Download CAD data [www.festo.com](http://www.festo.com)



|               | B2<br>[inch] | B3<br>[inch] | B4<br>[inch] | B5<br>[inch] | B6<br>[inch] | D6    | L5<br>[inch] | L6<br>[inch] |
|---------------|--------------|--------------|--------------|--------------|--------------|-------|--------------|--------------|
| MS4N-...-AD11 | 0,83         | 3,20         | 2,89         | 1,26         | 1,26         | M12x1 | 1,62         | 1,53         |
| MS4N-...-AD12 |              |              |              |              |              | M8x1  | 1,49         |              |

## Dimensions

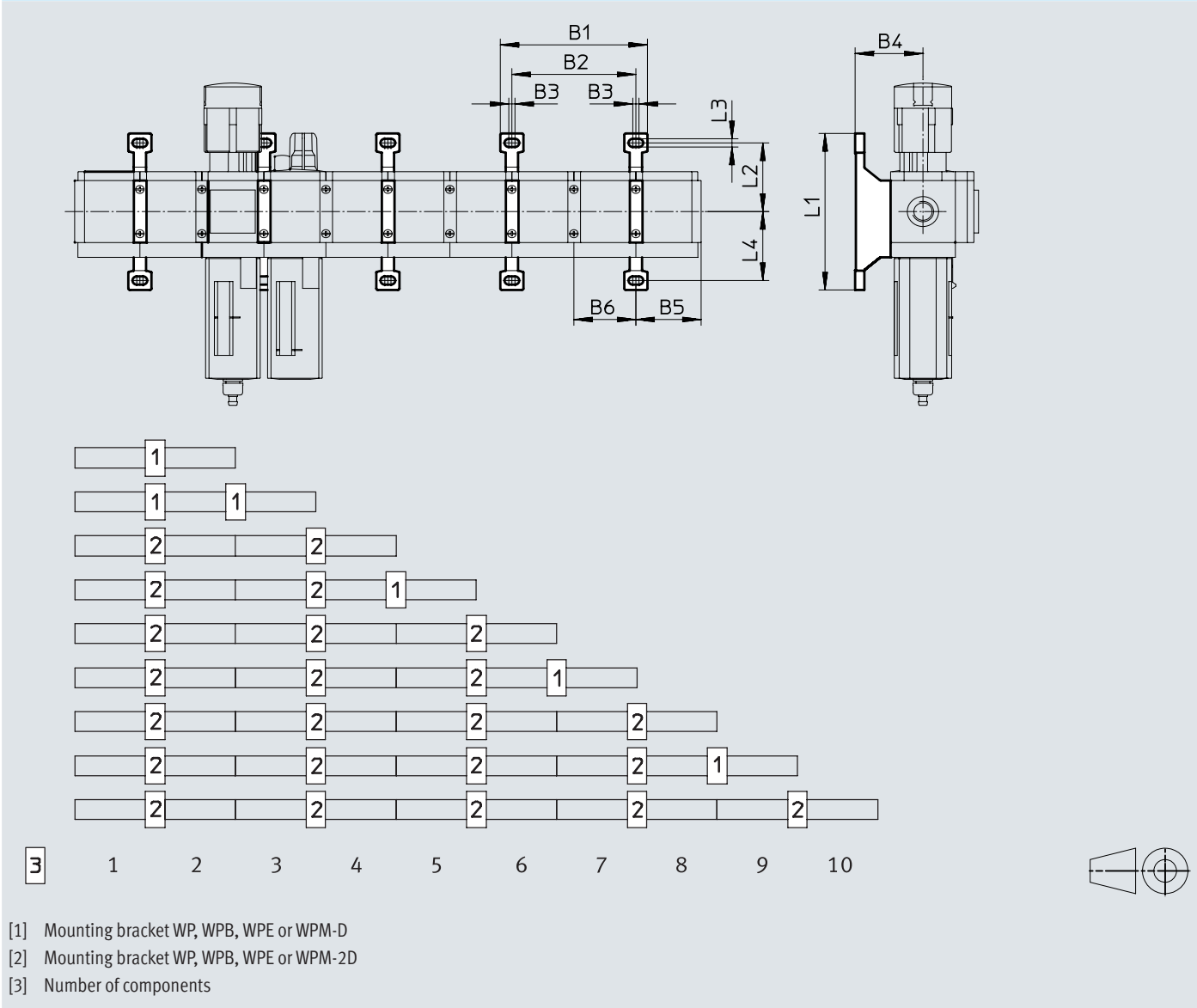
### Dimensions – Silencer

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


|               | D2<br>[inch] | L4<br>[inch] |
|---------------|--------------|--------------|
| MS4N-EE-....S | 0,79         | 2,17         |

Dimensions

Dimensions – Mounting clearances for mounting service unit combinations Download CAD data [www.festo.com](http://www.festo.com)

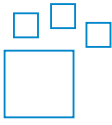


|              | B1 <sup>1)</sup><br>[inch] | B2 <sup>1)</sup><br>[inch] | B3<br>[inch] | B4<br>[inch] | B5 <sup>1)2)</sup><br>[inch] | B6 <sup>1)</sup><br>[inch] | L1<br>[inch] | L2<br>[inch] | L3<br>[inch] | L4<br>[inch] |
|--------------|----------------------------|----------------------------|--------------|--------------|------------------------------|----------------------------|--------------|--------------|--------------|--------------|
| MS4-WP       | 3,76                       | 3,17                       | 0,16         | 1,73         | 1,65                         | 1,58                       | 4,17         | 1,83         | 0,22         | 1,84         |
| MS4-WPB/WPE  |                            |                            |              | 2,60         |                              |                            |              |              |              |              |
| MS4-WPM-...D |                            |                            |              | 1,73         |                              |                            | 3,65         | 1,37         |              | 1,78         |

## Ordering data

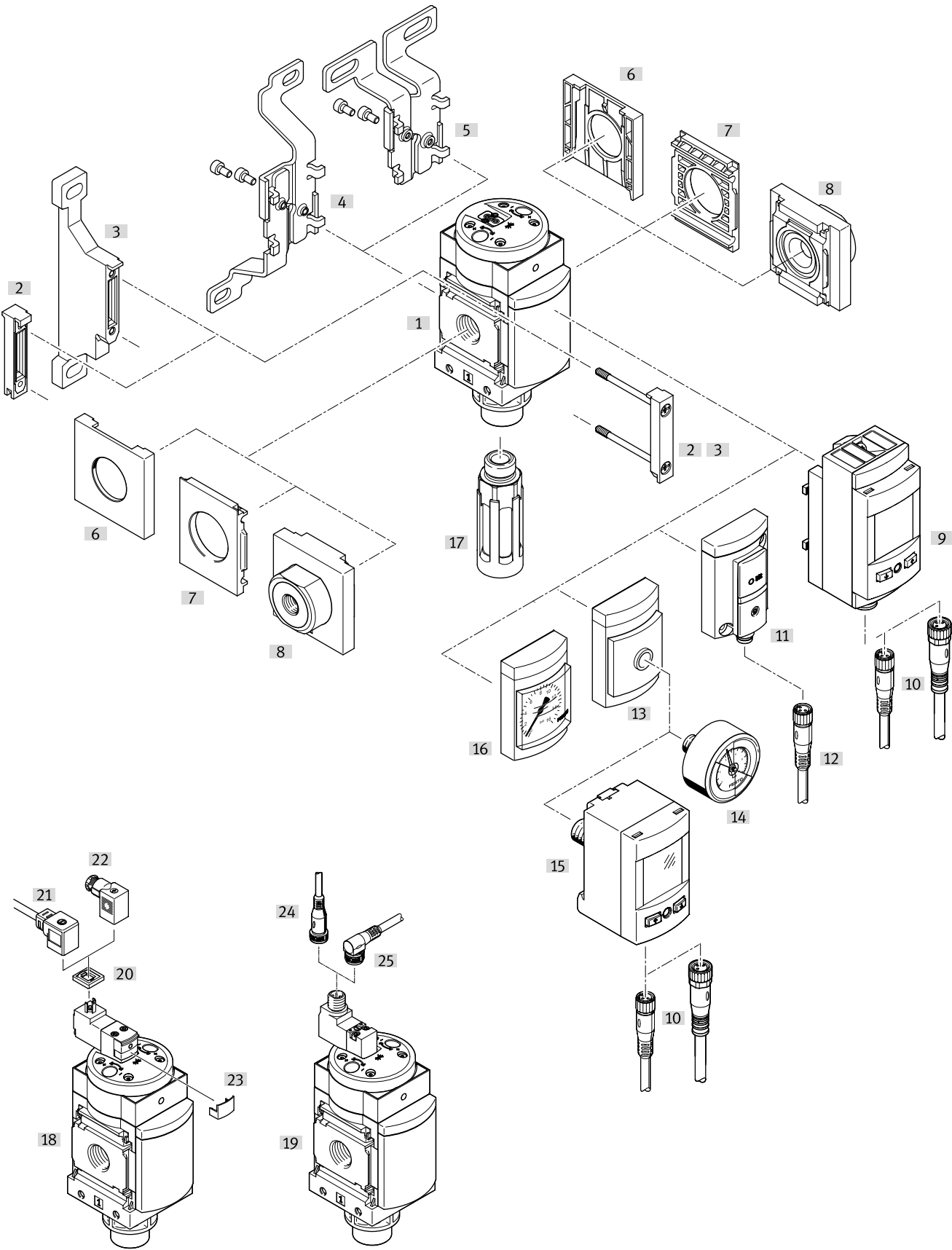
| Ordering data – Without silencer                                                  |                              |                           |                    |                |          |                     |
|-----------------------------------------------------------------------------------|------------------------------|---------------------------|--------------------|----------------|----------|---------------------|
|                                                                                   | Pneumatic connection, port 1 | Nominal operating voltage | Flow direction     | Product weight | Part no. | Type                |
|  | 1/8 NPT                      | 24 V DC                   | From left to right | 273 g          | 542589   | MS4N-EE-1/8-10V24   |
|                                                                                   |                              | 110 V AC/50-60 Hz         |                    |                | 532084   | MS4N-EE-1/8-V110    |
|                                                                                   | 1/4 NPT                      | 24 V DC                   | From right to left |                | 542588   | MS4N-EE-1/4-10V24   |
|                                                                                   |                              |                           |                    |                | 542590   | MS4N-EE-1/4-10V24-Z |
|                                                                                   |                              | 110 V AC/50-60 Hz         | From left to right |                | 532083   | MS4N-EE-1/4-V110    |
|                                                                                   |                              | 230 V AC/50-60 Hz         |                    |                | 532087   | MS4N-EE-1/4-V230    |

| Ordering data – With silencer                                                      |                              |                           |                    |                |          |                       |
|------------------------------------------------------------------------------------|------------------------------|---------------------------|--------------------|----------------|----------|-----------------------|
|                                                                                    | Pneumatic connection, port 1 | Nominal operating voltage | Flow direction     | Product weight | Part no. | Type                  |
|  | 1/8 NPT                      | 24 V DC                   | From left to right | 289 g          | 542610   | MS4N-EE-1/8-10V24-S   |
|                                                                                    |                              |                           | From right to left |                | 542611   | MS4N-EE-1/8-10V24-S-Z |
|                                                                                    |                              | 230 V AC/50-60 Hz         | From left to right |                | 538757   | MS4N-EE-1/8-V230-S    |
|                                                                                    | 1/4 NPT                      | 24 V DC                   |                    |                | 542608   | MS4N-EE-1/4-10V24-S   |
|                                                                                    |                              |                           | From right to left |                | 542609   | MS4N-EE-1/4-10V24-S-Z |
|                                                                                    |                              | 110 V AC/50-60 Hz         | From left to right |                | 538749   | MS4N-EE-1/4-V110-S    |
|                                                                                    |                              | 230 V AC/50-60 Hz         |                    |                | 538751   | MS4N-EE-1/4-V230-S    |

| Ordering data – Modular product system                                              |                 |          |         |
|-------------------------------------------------------------------------------------|-----------------|----------|---------|
|                                                                                     | Short type code | Part no. | Type    |
|  | MS4N-EE         | 527710   | MS4N-EE |

Peripherals

Peripherals overview



## Peripherals

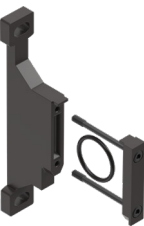
| Accessories                                        |                                                                                                                      | → Link                  |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------|
| Type/order code                                    | Description                                                                                                          |                         |
| [1] On/off valve MS4N-EE                           | On/off valve                                                                                                         | <a href="#">ms4n-ee</a> |
| [2] Module connector MS4-MV1                       | For connecting the modules                                                                                           | 16                      |
| [3] Mounting bracket MS4-WP                        | Order code [WP]                                                                                                      | 16                      |
| [3] Mounting bracket MS4-WPM                       | Order code [WPM] (without illustration)                                                                              | 16                      |
| [4] Mounting bracket MS4-WB                        | Order code [WB]                                                                                                      | 16                      |
| [5] Mounting bracket MS4-WBM                       | Order code [WBM]                                                                                                     | 17                      |
| [6] Cover cap MS4-END                              | Can be used to cover the sides of the housing for the first and last modules if no connecting plates are used.       | 17                      |
| [7] Mounting plate MS4-AEND                        | Module connector MS4-MV1 [2] or mounting bracket MS4-WP, WPB, WPE, WPM [3] is required for mounting.                 | 17                      |
| [8] Connecting plate SET MS4-AQ...                 | Order code [AQ...]                                                                                                   | 17                      |
| [9] Pressure sensor with LCD display SPAU          | <ul style="list-style-type: none"> <li>• Display module</li> <li>• Order code [AD11], [AD12]</li> </ul>              | <a href="#">ms4n-ee</a> |
| [10] Connecting cable NEBA-M...G...-LE4, angled    | Connecting cable for display module                                                                                  | 18                      |
| [10] Connecting cable NEBA-M...G...-LE4, straight  | Connecting cable for display module                                                                                  | 18                      |
| [11] Pressure sensor with switching indicator SDE5 | <ul style="list-style-type: none"> <li>• Display module</li> <li>• Order code [AD7], [AD8], [AD9], [AD10]</li> </ul> | <a href="#">ms4n-ee</a> |
| [12] Connecting cable NEBA-M...G...-LE3, straight  | Connecting cable for display module                                                                                  | 18                      |
| [13] Adapter for EN pressure gauge 1/8, 1/4        | Order code [A8], [A4]                                                                                                | <a href="#">ms4n-ee</a> |
| [14] Pressure gauge MA                             | Built-in pressure indicator                                                                                          | 17                      |
| [15] Pressure sensor SPAU-...-T                    | Display module                                                                                                       | 18                      |
| [16] Pressure gauge MS                             | Order code [AG], [RG]                                                                                                | <a href="#">ms4n-ee</a> |
| [17] Silencer U                                    | -                                                                                                                    | 19                      |
| [17] Silencer S                                    | Order code [S]                                                                                                       | <a href="#">ms4n-ee</a> |
| [18] On/off valve MS4-EE                           | Supply voltage [V24], [V24P], [10V24], [10V24C], [V110], [V230]                                                      | <a href="#">ms4n-ee</a> |
| [19] On/off valve MS4-EE                           | Supply voltage [1024VD], [1024VF], [1024VP]                                                                          | <a href="#">ms4n-ee</a> |
| [20] Illuminating seal MEB-LD                      | Switching status indication                                                                                          | 18                      |
| [21] Plug socket with cable KMEB                   | Connecting cable for valve coil                                                                                      | 19                      |
| [22] Plug socket MSSD-EB                           | Connection socket for valve coil                                                                                     | 19                      |
| [23] Locking clip CPV18-HV                         | Prevents the manual override from being activated                                                                    | 19                      |
| [24] Connecting cable NEBA-M12G5-LE4, straight     | Connecting cable for valve coil                                                                                      | 18                      |
| [25] Connecting cable NEBA-M12W5-LE4, angled       | Connecting cable for valve coil                                                                                      | 18                      |

## Accessories

## Module connector MS4-MV1

|                                                                                  | Size | Material module connector       | LABS (PWIS) conformity | Product weight | Part no.       | Type           |
|----------------------------------------------------------------------------------|------|---------------------------------|------------------------|----------------|----------------|----------------|
|  | 4    | POM, High-alloy stainless steel | VDMA24364-B1/B2-L      | 13 g           | <b>8119201</b> | <b>MS4-MV1</b> |

## Mounting bracket MS4-WP...

|                                                                                  | Size | Material bracket   | LABS (PWIS) conformity | Product weight | Part no.      | Type          |
|----------------------------------------------------------------------------------|------|--------------------|------------------------|----------------|---------------|---------------|
|  | 4    | Die-cast aluminium | VDMA24364-B1/B2-L      | 39 g           | <b>532184</b> | <b>MS4-WP</b> |

## Mounting bracket MS4-WPM

|                                                                                    | Size | Material module connector | LABS (PWIS) conformity | Product weight | Part no.      | Type             |
|------------------------------------------------------------------------------------|------|---------------------------|------------------------|----------------|---------------|------------------|
|  | 4    | POM, Steel                | VDMA24364-B1/B2-L      | 45 g           | <b>526060</b> | <b>MS4-WPM-D</b> |

## Mounting bracket MS4-WB

|                                                                                    | Size | Material bracket | LABS (PWIS) conformity | Product weight | Part no.      | Type          |
|------------------------------------------------------------------------------------|------|------------------|------------------------|----------------|---------------|---------------|
|  | 4    | Steel            | VDMA24364-B1/B2-L      | 46 g           | <b>532185</b> | <b>MS4-WB</b> |

## Accessories

| Mounting bracket MS4-WBM                                                          |      |                  |                        |                |          |         |
|-----------------------------------------------------------------------------------|------|------------------|------------------------|----------------|----------|---------|
|                                                                                   | Size | Material bracket | LABS (PWIS) conformity | Product weight | Part no. | Type    |
|  | 4    | Steel            | VDMA24364-B1/B2-L      | 48 g           | 526062   | MS4-WBM |

| Cover cap MS4-END                                                                 |      |                  |                        |                |          |         |
|-----------------------------------------------------------------------------------|------|------------------|------------------------|----------------|----------|---------|
|                                                                                   | Size | Material housing | LABS (PWIS) conformity | Product weight | Part no. | Type    |
|  | 4    | Reinforced PA    | VDMA24364-B1/B2-L      |                | 538779   | MS4-END |

| Mounting plate MS4-AEND                                                             |                |                        |                |          |          |
|-------------------------------------------------------------------------------------|----------------|------------------------|----------------|----------|----------|
|                                                                                     | Material plate | LABS (PWIS) conformity | Product weight | Part no. | Type     |
|  | Reinforced PA  | VDMA24364-B1/B2-L      | 4 g            | 542966   | MS4-AEND |

| Connecting plate SET MS4-AQ...                                                      |      |                              |                    |                |          |          |
|-------------------------------------------------------------------------------------|------|------------------------------|--------------------|----------------|----------|----------|
|                                                                                     | Size | Pneumatic connection, port 1 | Material sub-base  | Product weight | Part no. | Type     |
|  | 4    | 1/8 NPT                      | Die-cast aluminium | 128 g          | 526065   | MS4N-AQK |
|                                                                                     |      | 1/4 NPT                      |                    |                | 526066   | MS4N-AQN |
|                                                                                     |      | 3/8 NPT                      |                    |                | 526067   | MS4N-AQP |

| Pressure gauge MA                                                                   |                      |                  |                  |                |          |                    |
|-------------------------------------------------------------------------------------|----------------------|------------------|------------------|----------------|----------|--------------------|
|                                                                                     | Pneumatic connection | Indicating range | Indicating range | Product weight | Part no. | Type               |
|  | R1/8                 |                  | 0 ... 16 bar     | 60 g           | 525726   | MA-40-16-R1/8-E-RG |
|                                                                                     | R1/4                 | 0 ... 232 psi    |                  | 70 g           | 187080   | MA-40-16-R1/4-EN   |

## Accessories

## Pressure sensor SPAU

|                                                                                  | Pneumatic connection | Switching output               | Electrical connection 1, connector system | Product weight | Part no. | Type                               |
|----------------------------------------------------------------------------------|----------------------|--------------------------------|-------------------------------------------|----------------|----------|------------------------------------|
|  | R1/8                 | 2 x PNP or 2 x NPN, switchable | M12x1, A-coded to EN 61076-2-101          | 70 g           | 8001206  | SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D |
|                                                                                  |                      |                                | M8x1, A-coded, to EN 61076-2-104          |                | 8001203  | SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D  |
|                                                                                  | R1/4                 |                                | M12x1, A-coded to EN 61076-2-101          |                | 8001208  | SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D |
|                                                                                  |                      |                                | M8x1, A-coded, to EN 61076-2-104          |                | 8001209  | SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D  |

## Connecting cable NEBA, straight

| Connecting cable NEBA, straight                                                   |                                           |                                           |                                                          |              |          |                        |
|-----------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|--------------|----------|------------------------|
|                                                                                   | Electrical connection 1, connector system | Electrical connection 2, connector system | Electrical connection 2, number of connections/<br>cores | Cable length | Part no. | Type                   |
|  | M12x1, A-coded to EN 61076-2-101          | Open end                                  | 3                                                        | 2.5 m        | 8078236  | NEBA-M12G5-U-2.5-N-LE3 |
|                                                                                   |                                           |                                           |                                                          | 5 m          | 8078237  | NEBA-M12G5-U-5-N-LE3   |
|                                                                                   |                                           |                                           | 4                                                        | 2.5 m        | 8078239  | NEBA-M12G5-U-2.5-N-LE4 |
|                                                                                   |                                           |                                           |                                                          | 5 m          | 8078240  | NEBA-M12G5-U-5-N-LE4   |
|                                                                                   | M8x1, A-coded, to EN 61076-2-104          |                                           | 3                                                        | 2.5 m        | 8078223  | NEBA-M8G3-U-2.5-N-LE3  |
|                                                                                   |                                           |                                           |                                                          | 5 m          | 8078224  | NEBA-M8G3-U-5-N-LE3    |
|                                                                                   |                                           |                                           | 4                                                        | 2.5 m        | 8078227  | NEBA-M8G4-U-2.5-N-LE4  |
|                                                                                   |                                           |                                           |                                                          | 5 m          | 8078228  | NEBA-M8G4-U-5-N-LE4    |

## Connecting cable NEBA, angled

| Connecting cable NEBA, angled                                                      |                                           |                                           |                                                          |              |          |                        |
|------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|--------------|----------|------------------------|
|                                                                                    | Electrical connection 1, connector system | Electrical connection 2, connector system | Electrical connection 2, number of connections/<br>cores | Cable length | Part no. | Type                   |
|  | M12x1, A-coded to EN 61076-2-101          | Open end                                  | 3                                                        | 2.5 m        | 8078245  | NEBA-M12W5-U-2.5-N-LE3 |
|                                                                                    |                                           |                                           |                                                          | 5 m          | 8078246  | NEBA-M12W5-U-5-N-LE3   |
|                                                                                    |                                           |                                           | 4                                                        | 2.5 m        | 8078248  | NEBA-M12W5-U-2.5-N-LE4 |
|                                                                                    |                                           |                                           |                                                          | 5 m          | 8078249  | NEBA-M12W5-U-5-N-LE4   |
|                                                                                    | M8x1, A-coded, to EN 61076-2-104          |                                           | 3                                                        | 2.5 m        | 8078230  | NEBA-M8W3-U-2.5-N-LE3  |
|                                                                                    |                                           |                                           |                                                          | 5 m          | 8078231  | NEBA-M8W3-U-5-N-LE3    |
|                                                                                    |                                           |                                           | 4                                                        | 2.5 m        | 8078233  | NEBA-M8W4-U-2.5-N-LE4  |
|                                                                                    |                                           |                                           |                                                          | 5 m          | 8078234  | NEBA-M8W4-U-5-N-LE4    |

## Illuminating seal MEB-LD

|                                                                                    | Operational voltage range DC | Nominal operating voltage AC | Product weight | Part no. | Type           |
|------------------------------------------------------------------------------------|------------------------------|------------------------------|----------------|----------|----------------|
|  |                              | 230 V                        | 0.6 g          | 151718   | MEB-LD-230AC   |
|                                                                                    | 12 ... 24 V                  |                              |                | 151717   | MEB-LD-12-24DC |

## Accessories

| Plug socket with cable KMEB 230V AC                                               |                              |              |                |          |                  |
|-----------------------------------------------------------------------------------|------------------------------|--------------|----------------|----------|------------------|
|                                                                                   | Nominal operating voltage AC | Cable length | Product weight | Part no. | Type             |
|  | 230 V                        | 2.5 m        | 125 g          | 151690   | KMEB-1-230AC-2.5 |
|                                                                                   |                              | 5 m          | 230 g          | 151691   | KMEB-1-230AC-5   |

| Plug socket with cable KMEB 24V DC                                                |                              |              |                |          |                   |
|-----------------------------------------------------------------------------------|------------------------------|--------------|----------------|----------|-------------------|
|                                                                                   | Nominal operating voltage DC | Cable length | Product weight | Part no. | Type              |
|  | 24 V                         | 2.5 m        | 120 g          | 547268   | KMEB-3-24-2.5-LED |
|                                                                                   |                              |              |                | 547270   | KMEB-3-24-2.5     |
|                                                                                   |                              | 5 m          | 125 g          | 151688   | KMEB-1-24-2.5-LED |
|                                                                                   |                              |              |                | 547271   | KMEB-3-24-5       |
|                                                                                   |                              |              | 230 g          | 151689   | KMEB-1-24-5-LED   |
|                                                                                   |                              |              |                | 547269   | KMEB-3-24-5-LED   |

| Plug socket MSSD-EB                                                                 |                                                                                                                     |               |                |          |             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------|-------------|
|                                                                                     | Electrical connection                                                                                               | Cable fitting | Product weight | Part no. | Type        |
|  | 3-pin, Socket, Angled socket, Type C, To DIN EN 175301-803, To DIN EN 61984, Square design MSEB, Square design MSN2 | Pg7           | 11 g           | 539712   | MSSD-EB-M12 |
|                                                                                     |                                                                                                                     |               |                | 151687   | MSSD-EB     |

| Silencer U                                                                          |                      |                      |                         |                |          |         |
|-------------------------------------------------------------------------------------|----------------------|----------------------|-------------------------|----------------|----------|---------|
|                                                                                     | Pneumatic connection | Sound pressure level | Flow rate to atmosphere | Product weight | Part no. | Type    |
|  | G1/4                 | 80 dB(A)             | 2,440 l/min             | 17 g           | 6842     | U-1/4-B |

| Locking clip CPV18-HV                                                               |                 |                        |                |          |          |
|-------------------------------------------------------------------------------------|-----------------|------------------------|----------------|----------|----------|
|                                                                                     | Short type code | LABS (PWIS) conformity | Product weight | Part no. | Type     |
|  | CPV18           | VDMA24364-B1/B2-L      | 0.53 g         | 530056   | CPV18-HV |