

## Branching module MS4N-FRM

**FESTO**



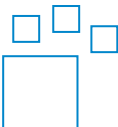
## Characteristics

### At a glance

- Width dimension: 40 mm
- Outlet at top and bottom
- Support for additional modules
- With optional integrated non-return function and pressure switch
- Can be used as an intermediate distributor for varying air qualities
- Optional pressure sensor

### Ordering data - modular system

Link [ms4n-frm](#)



Configurable product

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

### Function

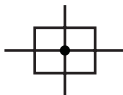
Air distributor with 4 connections

### Pneumatic connection

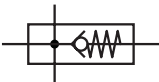
The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

### Additional function

[ ] Without



[!] With integrated non-return function



### Pressure gauge alternatives

Two pressure gauge connections for variable installation

### Alternative pressure gauge scale

The scaling of the built-in pressure gauge can be selected. The unit options available are [MPa], [bar] / [psi].

### Pressure switch

Optionally available with different pressure switches.

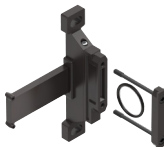
### Type of mounting

[WP] Mounting bracket standard design



- For wall mounting a single device or a service unit combination

[WPM] Mounting bracket for hooking in air preparation units



- For wall mounting an individual device

## Characteristics

[WB]

Mounting centrally at rear (wall mounting top and bottom),  
sub-bases not required



- For wall mounting an individual device

[WBM]

Mounting centrally at rear (wall mounting top), sub-bases  
not required



- For wall mounting an individual device

### Flow direction

Available with opposite flow direction.

## Type code

|      |                                                                                                    |  |
|------|----------------------------------------------------------------------------------------------------|--|
| 001  | Series                                                                                             |  |
| MS   | MS series                                                                                          |  |
| 002  | Size                                                                                               |  |
| 4    | Width dimension 40 mm                                                                              |  |
| 003  | Thread type                                                                                        |  |
| N    | NPT thread                                                                                         |  |
| 004  | Function                                                                                           |  |
| FRM  | Branching module                                                                                   |  |
| 005  | Pneumatic connection, inch                                                                         |  |
| 1/8  | Internal thread NPT 1/8                                                                            |  |
| 1/4  | Internal thread NPT 1/4                                                                            |  |
| AQK  | Sub-base NPT1/8                                                                                    |  |
| AQN  | Sub-base NPT1/4                                                                                    |  |
| AQP  | Sub-base NPT3/8                                                                                    |  |
| 006  | Additional function                                                                                |  |
|      | Without                                                                                            |  |
| I    | With integrated non-return function                                                                |  |
| 007  | Pressure gauge alternatives                                                                        |  |
|      | Without                                                                                            |  |
| A4   | Adapter plate for EN pressure gauge 1/4, without pressure gauge                                    |  |
| A8   | Adapter plate for EN pressure gauge 1/8, without pressure gauge                                    |  |
| AD7  | Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O              |  |
| AD8  | Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C              |  |
| AD9  | Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O                       |  |
| AD10 | Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C            |  |
| AD11 | Pressure sensor with LCD display, M12 4-pin plug, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA |  |
| AD12 | Pressure sensor with LCD display, M8 4-pin plug, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA  |  |
| AG   | MS pressure gauge                                                                                  |  |
| RG   | Integrated pressure gauge, red/green scale                                                         |  |

|     |                                                                                   |  |
|-----|-----------------------------------------------------------------------------------|--|
| 008 | Alternative pressure gauge scale                                                  |  |
|     | MS pressure gauge                                                                 |  |
| BAR | Bar                                                                               |  |
| MPA | MPa                                                                               |  |
| 009 | Pressure switch                                                                   |  |
|     | Without                                                                           |  |
| M12 | Pressure switch PEV without display, plug socket, round, M12, 4-pin               |  |
| X   | Pressure switch PEV with display, plug socket, EN 175301, type A, cube            |  |
| Y   | Pressure switch PEV without display, plug socket, EN 175301, type A, cube         |  |
| 010 | Type of mounting                                                                  |  |
|     | Without mounting bracket                                                          |  |
| WB  | Mounting centrally at rear (wall mounting top and bottom), sub-bases not required |  |
| WBM | Mounting centrally at rear (wall mounting top), sub-bases not required            |  |
| WP  | Mounting bracket standard design                                                  |  |
| WPM | Mounting bracket for hooking in air preparation units                             |  |
| 011 | Flow direction                                                                    |  |
|     | Flow direction from left to right                                                 |  |
| Z   | Flow direction from right to left                                                 |  |

## Datasheet

### General technical data

|                        |                  |                                       |
|------------------------|------------------|---------------------------------------|
| Pneumatic connection 1 | 1/8 NPT          | 1/4 NPT                               |
| Pneumatic connection 2 | 1/8 NPT          | 1/4 NPT                               |
| Pneumatic connection 3 | 1/4 NPT          |                                       |
| Pneumatic connection 4 | 1/4 NPT          |                                       |
| Structural design      | Branching module | Branching module, With check function |
| Mounting position      | Any              |                                       |

### Standard nominal flow rate (standard)

|                                                          |             |             |
|----------------------------------------------------------|-------------|-------------|
| Pneumatic connection 1                                   | 1/8 NPT     | 1/4 NPT     |
| Standard nominal flow rate in main flow direction 1 -> 2 | 1,800 l/min | 4,600 l/min |
| Standard nominal flow rate outlet at top                 | 1,600 l/min | 1,500 l/min |
| Standard nominal flow rate outlet down                   | 1,700 l/min | 1,500 l/min |

### Standard nominal flow rate (with non-return function)

|                                                          |             |
|----------------------------------------------------------|-------------|
| Pneumatic connection 1                                   | 1/4 NPT     |
| Standard nominal flow rate in main flow direction 1 -> 2 | 1,750 l/min |
| Standard nominal flow rate outlet at top                 | 500 l/min   |
| Standard nominal flow rate outlet down                   | 500 l/min   |

### Operating and environmental conditions

|                                                |                                                                    |
|------------------------------------------------|--------------------------------------------------------------------|
| Operating pressure                             | 0 ... 14 bar                                                       |
| Operating medium                               | Compressed air as per ISO 8573-1:2010 [7:4:4], Inert gases         |
| Information on operating and pilot media       | Operation with oil lubrication possible (required for further use) |
| Ambient temperature                            | -10 ... 60°C                                                       |
| Temperature of medium                          | -10 ... 60°C                                                       |
| Storage temperature                            | -10 ... 60°C                                                       |
| Corrosion resistance class (CRC) <sup>1)</sup> | 2 - Moderate corrosion stress                                      |
| For use in the food industry <sup>2)</sup>     | See supplementary material information                             |

1) Further information, visit [www.festo.com/x/topic/kbk](http://www.festo.com/x/topic/kbk)

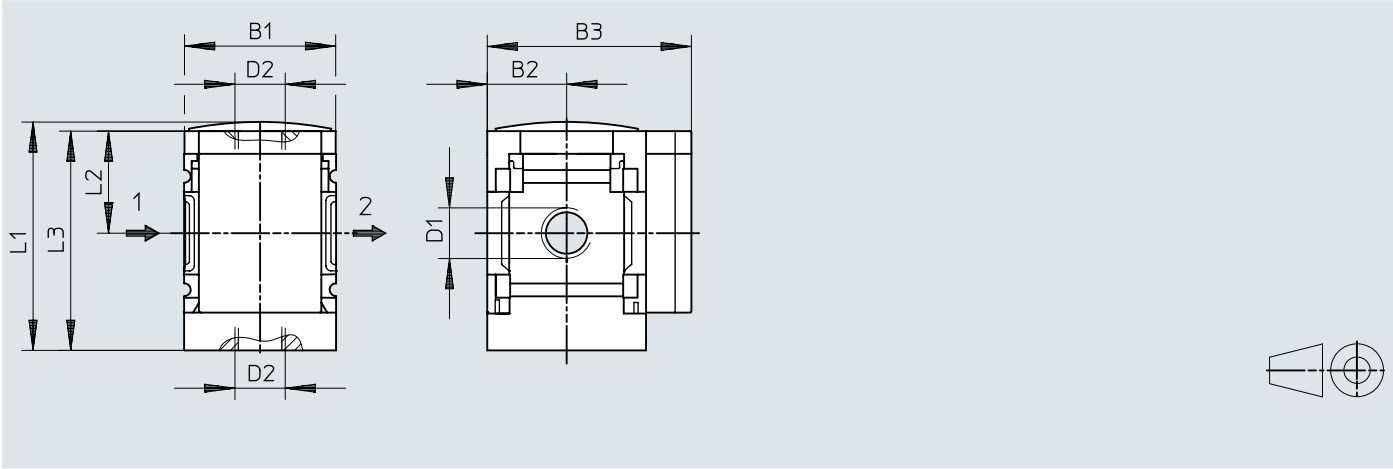
2) Further information [www.festo.com/catalogue/ms-firm](http://www.festo.com/catalogue/ms-firm) → Support/Downloads.

### Materials

|                        |                   |
|------------------------|-------------------|
| Housing material       | Die-cast aluminum |
| 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)

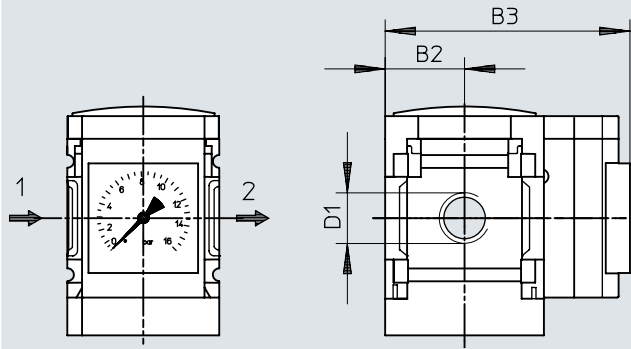


|              | B1<br>[inch] | B2<br>[inch] | B3<br>[inch] | D1      | D2      | L1<br>[inch] | L2<br>[inch] | L3<br>[inch] |
|--------------|--------------|--------------|--------------|---------|---------|--------------|--------------|--------------|
| MS4N-FRM-1/8 | 1,57         | 0,83         | 2,13         | 1/8 NPT | 1/4 NPT | 2,38         | 1,06         | 2,28         |
| MS4N-FRM-1/4 |              |              |              | 1/4 NPT |         |              |              |              |

Dimensions

Dimensions – AG Integrated MS pressure gauge with standard scale, RG Integrated MS pressure gauge with red-green scale

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



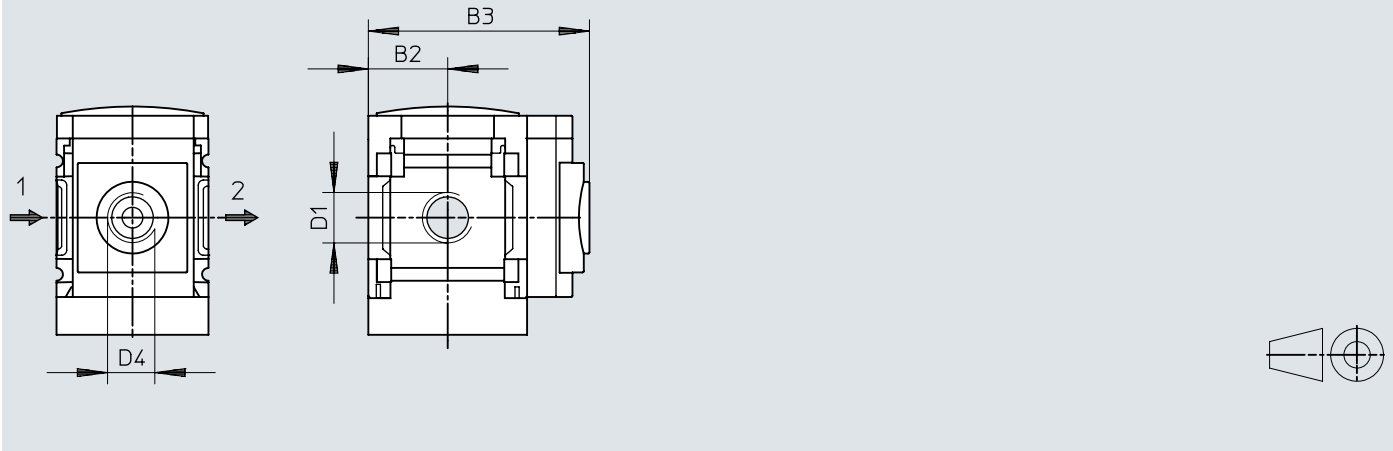
|                     | B2<br>[inch] | B3<br>[inch] | D1      |
|---------------------|--------------|--------------|---------|
| MS4N-FRM-1/8-...-AG | 0,83         | 2,56         | 1/8 NPT |
| MS4N-FRM-1/4-...-AG |              |              | 1/4 NPT |
| MS4N-FRM-1/8-...-RG |              | 2,62         | 1/8 NPT |
| MS4N-FRM-1/4-...-RG |              |              | 1/4 NPT |

1) Standard

Dimensions

Dimensions – A8 adapter for EN pressure gauge 1/8, without pressure gauge,  
A4 adapter for EN pressure gauge 1/4, without pressure gauge

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



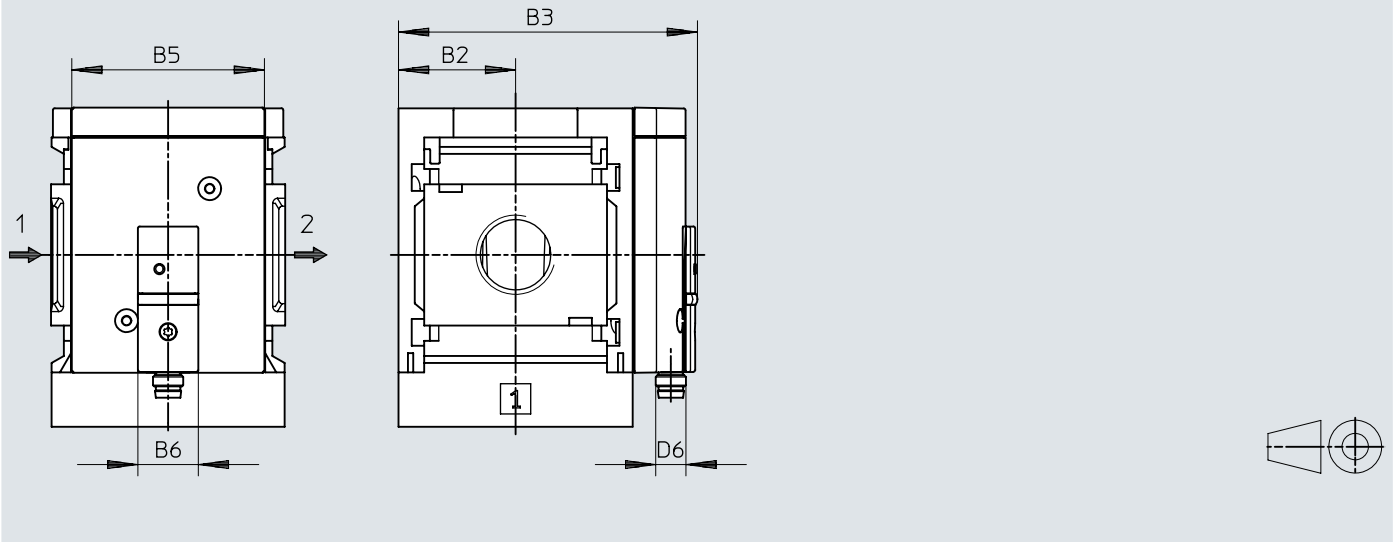
|                     | B2<br>[inch] | B3<br>[inch] | D1      | D4      |
|---------------------|--------------|--------------|---------|---------|
| MS4N-FRM-1/8-...-A8 | 0,83         | 2,30         | 1/8 NPT | 1/8 NPT |
| MS4N-FRM-1/4-...-A8 |              |              | 1/4 NPT |         |
| MS4N-FRM-1/8-...-A4 |              |              | 1/8 NPT | 1/4 NPT |
| MS4N-FRM-1/4-...-A4 |              |              | 1/4 NPT |         |

1) Standard

Dimensions

Dimensions – AD7/AD8/AD9/AD10 pressure sensor with switching indication

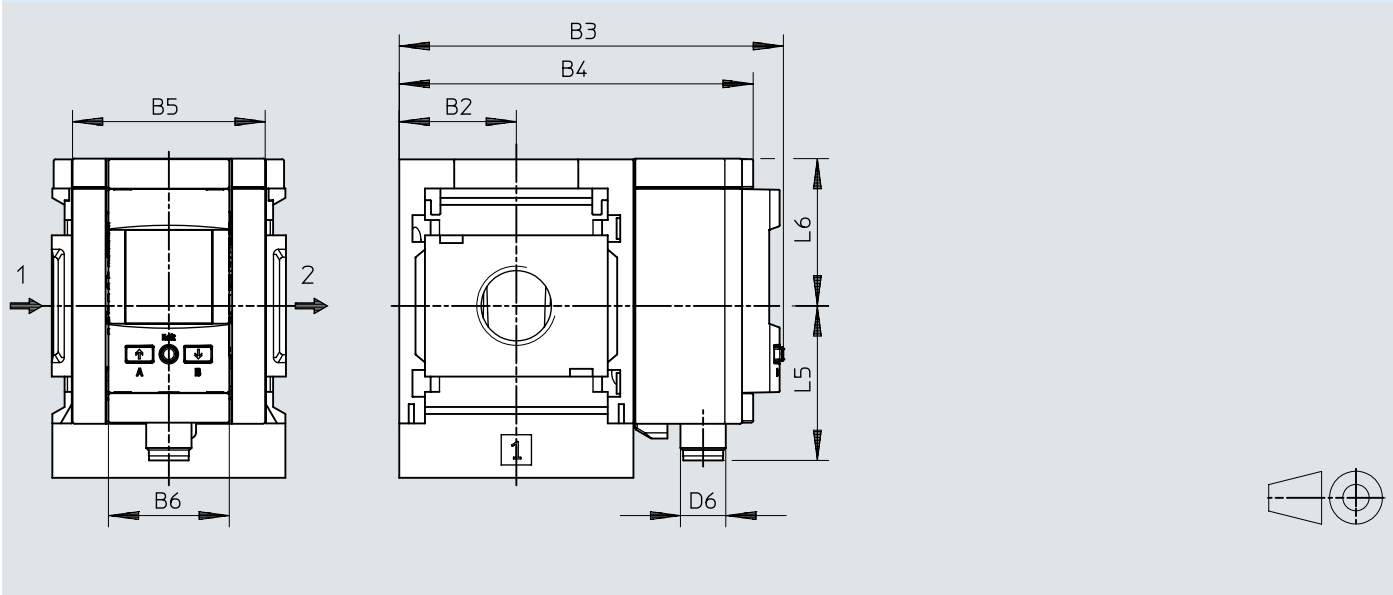
Download CAD data [www.festo.com](http://www.festo.com)



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

Dimensions

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

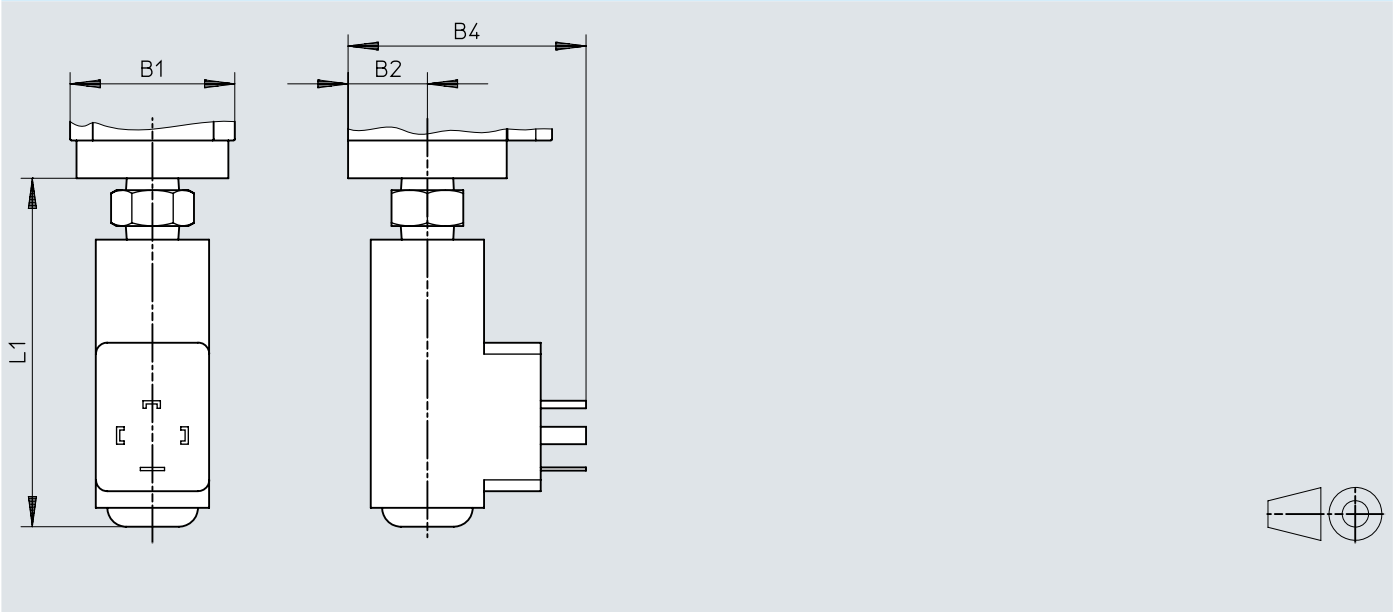


|               | B2<br>[inch] | B3<br>[inch] | B4<br>[inch] | B5<br>[inch] | B6<br>[inch] | D6    | L5<br>[inch] | L6<br>[inch] |
|---------------|--------------|--------------|--------------|--------------|--------------|-------|--------------|--------------|
| MS4N-...-AD11 | 0,83         | 3,20         | 2,89         | 1,26         | 1,26         | M12x1 | 1,62         | 1,54         |
| MS4N-...-AD12 |              |              |              |              |              | M8x1  | 1,49         |              |

Dimensions

Dimensions – X/Y pressure switch with adjustable pressure switching point

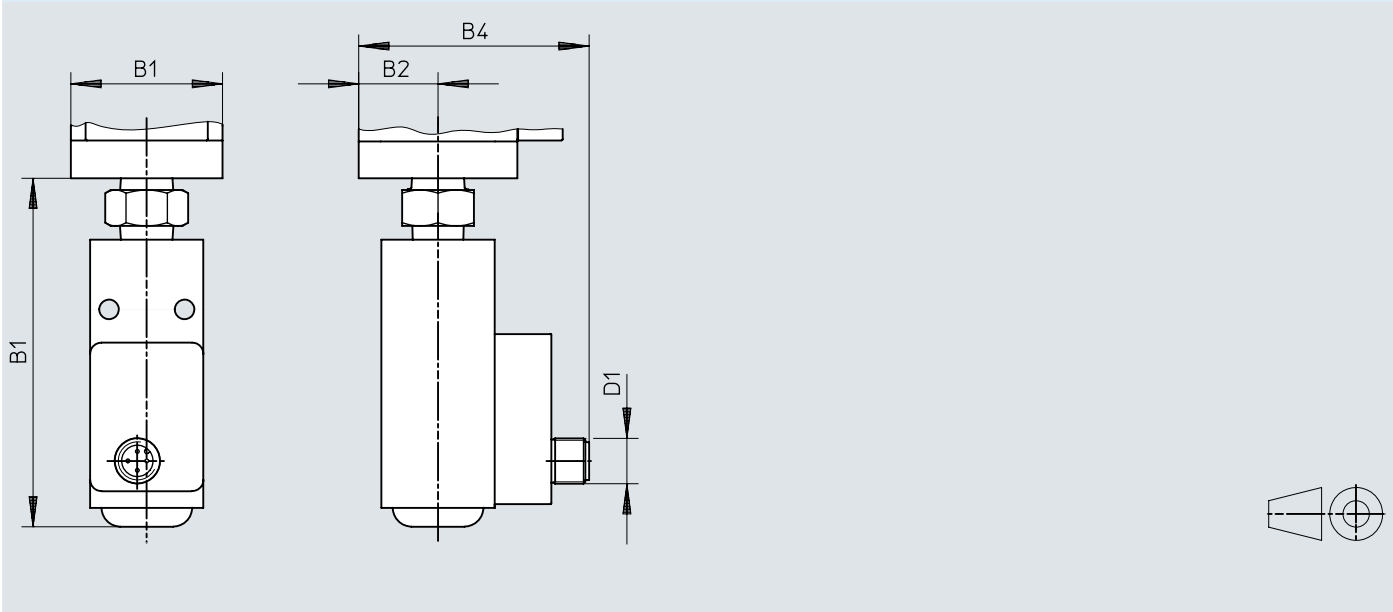
Download CAD data [www.festo.com](http://www.festo.com)



|                  | B1<br>[inch] | B2<br>[inch] | B4<br>[inch] | L1<br>[inch] |
|------------------|--------------|--------------|--------------|--------------|
| MS4N-FRM-....X/Y | 1,57         | 0,83         | 2,48         | 3,61         |

Dimensions

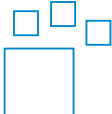
Dimensions – M12 pressure switch with adjustable pressure switching point [Download CAD data](#) [www.festo.com](http://www.festo.com)



|                  | B1<br>[inch] | B2<br>[inch] | B4<br>[inch] | D1    | L1<br>[inch] |
|------------------|--------------|--------------|--------------|-------|--------------|
| MS4N-FRM-...-M12 | 1,57         | 0,83         | 2,40         | M12x1 | 3,61         |

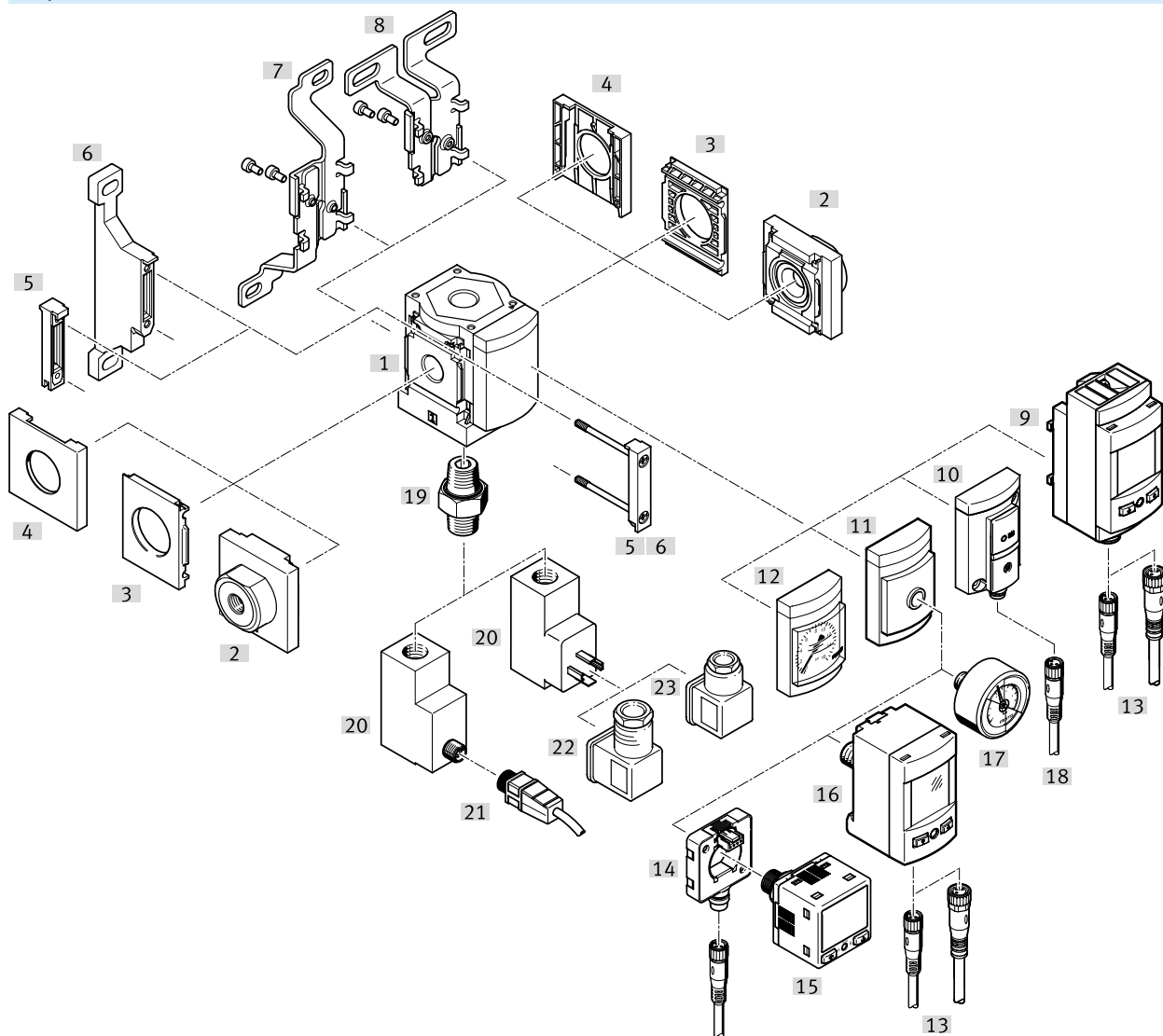
## Ordering data

| Ordering data                                                                     |                        |                    |                                       |                |               |                         |
|-----------------------------------------------------------------------------------|------------------------|--------------------|---------------------------------------|----------------|---------------|-------------------------|
|                                                                                   | Pneumatic connection 1 | Flow direction     | Structural design                     | Product weight | Part no.      | Type                    |
|  | 1/8 NPT                | From left to right | Branching module                      | 165 g          | <b>531950</b> | <b>MS4N-FRM-1/8</b>     |
|                                                                                   | 1/4 NPT                | From right to left | Branching module, With check function | 160 g          | <b>536981</b> | <b>MS4N-FRM-1/4-I-Z</b> |
|                                                                                   |                        | From left to right |                                       |                | <b>536976</b> | <b>MS4N-FRM-1/4-I</b>   |
|                                                                                   |                        |                    | Branching module                      | 165 g          | <b>531949</b> | <b>MS4N-FRM-1/4</b>     |
|                                                                                   |                        |                    |                                       | 405 g          | <b>531953</b> | <b>MS4N-FRM-1/4-Y</b>   |

| Ordering data – Modular product system                                            |                   |               |                 |
|-----------------------------------------------------------------------------------|-------------------|---------------|-----------------|
|                                                                                   | Structural design | Part no.      | Type            |
|  | Branching module  | <b>527704</b> | <b>MS4N-FRM</b> |

# Peripherals overview

## Peripherals overview

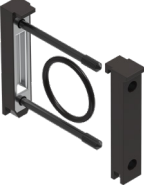


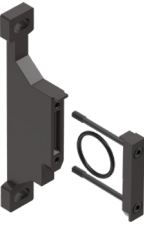
| Accessories                                           |                                                                                                                               | → Page/Internet          |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Type/order code                                       | Description                                                                                                                   |                          |
| [1] Branching Module MS4N-FRM                         |                                                                                                                               | <a href="#">ms4n-frm</a> |
| [2] Connection plate SET MS4-A...                     | Order code [AG...]; module connector MS4-MV1 is used for mounting [5] or mounting bracket MS4-WP, WPB, WPE, WPM [6] required. | 18                       |
| [3] Mounting plate MS4-AEND                           | Order code [AG...]; for mounting, module connector MS4-MV1 [5] or mounting bracket MS4-WP, WPB, WPE, WPM [6] is required.     | 18                       |
| [4] Cover cap MS4-END                                 |                                                                                                                               | 18                       |
| [5] Module connector MS4-MV1                          | Included in the scope of delivery                                                                                             | 16                       |
| [6] Mounting bracket MS4-WP                           | Order code [WP]                                                                                                               | 16                       |
| [6] Mounting bracket MS4-WPB                          | Without illustration                                                                                                          | 16                       |
| [6] Mounting bracket MS4-WPE                          | Not shown                                                                                                                     | 16                       |
| [6] Mounting bracket MS4-WPM                          | Order code [WPM] (not shown)                                                                                                  | 16                       |
| [7] Mounting bracket MS4-WB                           | Order code [WB]                                                                                                               | 16                       |
| [8] Mounting bracket MS4-WBM                          | Order code [WBM]                                                                                                              | 16                       |
| [9] Pressure sensor with LCD display SPAU             | Order code [AD11], [AD12]                                                                                                     | <a href="#">spau</a>     |
| [10] Pressure sensor with switching indication SDE5   | Order code [AD7], [AD8], [AD9], [AD10]                                                                                        | <a href="#">sde5</a>     |
| [11] Adapter for EN pressure gauge 1/8, 1/4           | Order code [A8], [A4]                                                                                                         | <a href="#">ms4n-frm</a> |
| [12] Pressure gauge MS                                | Order code [AG], [RG]                                                                                                         | <a href="#">ms4n-frm</a> |
| [13] Connecting cable NEBA-M8...-LE4, NEBA-M12...-LE4 |                                                                                                                               | 17                       |
| [14] Electrical adapter SASC                          |                                                                                                                               | 17                       |
| [15] Pressure sensor SPAN                             |                                                                                                                               | 17                       |

## Peripherals overview

| Accessories                                |                                   | → Page/Internet     |
|--------------------------------------------|-----------------------------------|---------------------|
| Type/order code                            | Description                       |                     |
| [16] Pressure sensor SPAU-...-T            |                                   | <a href="#">17</a>  |
| [17] Pressure gauge MA                     |                                   | <a href="#">18</a>  |
| [18] Connecting cable NEBA-M8...-LE3       |                                   | <a href="#">17</a>  |
| [19] Double nipple ESK                     | Included in the scope of delivery | <a href="#">19</a>  |
| [20] Pressure switch PEV                   | Order code [X], [Y], [M12]        | <a href="#">pev</a> |
| [21] Connecting cable NEBA-M12...-LE4      |                                   | <a href="#">17</a>  |
| [22] Angled plug socket PEV-1/4-WD-LED-... |                                   | <a href="#">19</a>  |
| [23] Plug socket MSSD-C-4P                 |                                   | <a href="#">19</a>  |

# Accessories

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

| Mounting bracket MS4-WP...                                                       |                   |                        |                |               |                   |
|----------------------------------------------------------------------------------|-------------------|------------------------|----------------|---------------|-------------------|
|                                                                                  | Bracket material  | LABS (PWIS) conformity | Product weight | Part no.      | Type              |
|  | Die-cast aluminum | VDMA24364-B1/B2-L      |                | <b>558869</b> | <b>MS4-WPE</b>    |
|                                                                                  |                   |                        | 39 g           | <b>532184</b> | <b>MS4-WP</b>     |
|                                                                                  |                   |                        | 45 g           | <b>526060</b> | <b>MS4-WPM-D</b>  |
|                                                                                  |                   |                        | 55 g           | <b>526063</b> | <b>MS4-WPB</b>    |
|                                                                                  |                   |                        |                | <b>526061</b> | <b>MS4-WPM-2D</b> |

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

| Mounting bracket MS4-WBM                                                            |                  |                        |                |               |                |
|-------------------------------------------------------------------------------------|------------------|------------------------|----------------|---------------|----------------|
|                                                                                     | Bracket material | LABS (PWIS) conformity | Product weight | Part no.      | Type           |
|  | Steel            | VDMA24364-B1/B2-L      | 48 g           | <b>526062</b> | <b>MS4-WBM</b> |

## Accessories

## Electrical adapter SASC

|                                                                                   | Electrical connection 1, connection technology                                         | Degree of protection | LABS (PWIS) conformity | Part no.       | Type                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------|------------------------|----------------|-----------------------|
|  | M8x1 A-coded as per EN 61076-2-104, Diameter 8 mm, A-coded according to EN 61076-2-104 | IP40                 | VDMA24364-B1/B2-L      | <b>8000326</b> | <b>SASC-P4-A-M8-A</b> |

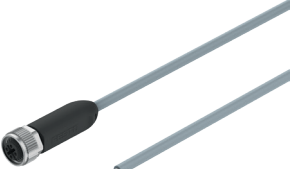
## Pressure sensor SPAN

|                                                                                   | Pneumatic connection                     | Switching output              | Switching element function          | Product weight | Part no. | Type                         |
|-----------------------------------------------------------------------------------|------------------------------------------|-------------------------------|-------------------------------------|----------------|----------|------------------------------|
|  | External thread G1/8, Internal thread M5 | 2 x PNP or 2 x NPN switchable | N/C contact/N/O contact, switchable | 46 g           | 8035544  | SPAN-P10R-G18M-PN-PN-L1      |
|                                                                                   |                                          |                               |                                     |                | 8035533  | SPAN-P10R-G18M-PNLK-PNVBA-L1 |
|                                                                                   | External thread R1/8, Internal thread M5 |                               |                                     |                | 8035547  | SPAN-P10R-R18M-PN-PN-L1      |
|                                                                                   |                                          |                               |                                     |                | 8035536  | SPAN-P10R-R18M-PNLK-PNVBA-L1 |

## Pressure sensor SPAU-...-T

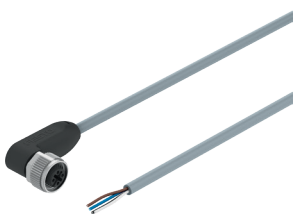
|                                                                                    | Pneumatic connection | Switching output              | Electrical connection 1, connection technology | Product weight | Part no. | Type                               |
|------------------------------------------------------------------------------------|----------------------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

## Connecting cables NEBA, straight

| Connecting cables NEBA, straight                                                    | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/wires | Cable length | Part no. | Type                   |
|-------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------|------------------------|
|  | M12x1 A-coded as per 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 as per 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    |

## Accessories

## Connecting cables NEBA, angled

|                                                                                  | Electrical connection 1, connection technology | Electrical connection 2, connection technology | Electrical connection 2, number of pins/wires | Cable length | Part no. | Type                   |
|----------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|-----------------------------------------------|--------------|----------|------------------------|
|  | M12x1 A-coded as per 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 as per 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    |

## Pressure gauge MA

|                                                                                  | Pneumatic connection | Display range | Scale                                        | Product weight | Part no. | Type               |
|----------------------------------------------------------------------------------|----------------------|---------------|----------------------------------------------|----------------|----------|--------------------|
|  | G1/4                 | 0 ... 16 bar  | Double scale, bar (außen), psi (inner scale) | 70 g           | 183901   | MA-40-16-G1/4-EN   |
|                                                                                  | R1/8                 |               | Single scale, bar (außen)                    | 60 g           | 525726   | MA-40-16-R1/8-E-RG |
|                                                                                  | R1/4                 |               | Double scale, bar (außen), psi (inner scale) | 70 g           | 187080   | MA-40-16-R1/4-EN   |
|                                                                                  |                      |               | Single scale, bar (außen)                    | 75 g           | 525729   | MA-50-16-R1/4-E-RG |

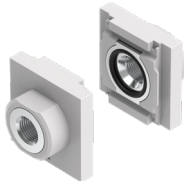
## Cover cap MS4-END

|                                                                                    | Housing material | LABS (PWIS) conformity | Part no. | Type    |
|------------------------------------------------------------------------------------|------------------|------------------------|----------|---------|
|  | PA-reinforced    | VDMA24364-B1/B2-L      | 538779   | MS4-END |

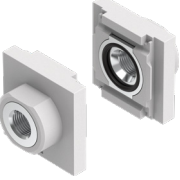
## Mounting plate MS4-AEND

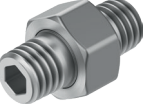
|                                                                                     | Plate material | LABS (PWIS) conformity | Product weight | Part no. | Type     |
|-------------------------------------------------------------------------------------|----------------|------------------------|----------------|----------|----------|
|  | PA-reinforced  | VDMA24364-B1/B2-L      | 4 g            | 542966   | MS4-AEND |

## Sub-base SET MS4-AQ...

|                                                                                    | Pneumatic connection 1 | Material of sub-base | LABS (PWIS) conformity | Product weight | Part no. | Type     |
|------------------------------------------------------------------------------------|------------------------|----------------------|------------------------|----------------|----------|----------|
|  | 1/8 NPT                | Die-cast aluminum    | VDMA24364-B1/B2-L      | 128 g          | 526065   | MS4N-AQK |

## Accessories

| Sub-base SET MS4-AQ...                                                            |                        |                      |                        |                |               |                 |
|-----------------------------------------------------------------------------------|------------------------|----------------------|------------------------|----------------|---------------|-----------------|
|                                                                                   | Pneumatic connection 1 | Material of sub-base | LABS (PWIS) conformity | Product weight | Part no.      | Type            |
|  | 1/4 NPT                | Die-cast aluminum    | VDMA24364-B1/B2-L      | 128 g          | <b>526066</b> | <b>MS4N-AQN</b> |
|                                                                                   | 3/8 NPT                |                      |                        |                | <b>526067</b> | <b>MS4N-AQP</b> |

| Double nipple ESK                                                                 |                        |                        |                        |                        |               |                    |
|-----------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|---------------|--------------------|
|                                                                                   | Pneumatic connection 1 | Pneumatic connection 2 | Double nipple material | LABS (PWIS) conformity | Part no.      | Type               |
|  | R1/4                   | R1/4                   | Brass                  | VDMA24364-B1/B2-L      | <b>151521</b> | <b>ESK-1/4-1/4</b> |
|                                                                                   |                        | R1/2                   |                        |                        | <b>534153</b> | <b>ESK-1/4-1/2</b> |

| Angled plug socket PEV                                                              |                            |                            |                                                |                             |               |                           |
|-------------------------------------------------------------------------------------|----------------------------|----------------------------|------------------------------------------------|-----------------------------|---------------|---------------------------|
|                                                                                     | Operating voltage range AC | DC operating voltage range | Electrical connection 1, connection technology | Switching status indication | Part no.      | Type                      |
|  |                            | 15 ... 30 V                | Connection diagram form A as per EN 175301-803 | Yellow LED, Green LED       | <b>164274</b> | <b>PEV-1/4-WD-LED-24</b>  |
|                                                                                     | 150 ... 230 V              | 140 ... 180 V              |                                                |                             | <b>164275</b> | <b>PEV-1/4-WD-LED-230</b> |

| Plug socket MSSD                                                                    |                                                                                                         |                                             |                        |                |               |                  |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------|----------------|---------------|------------------|
|                                                                                     | Electrical connection                                                                                   | Type of mounting                            | LABS (PWIS) conformity | Product weight | Part no.      | Type             |
|  | 3-pin, Angled socket, Type A, As per DIN EN 175301-803, Rectangular design MSC, Rectangular design MSN1 | On air solenoid valve with M3 central screw | VDMA24364-B2-L         | 22 g           | <b>171157</b> | <b>MSSD-C-4P</b> |