

# Pressure sensors SDE1, with display

Product overview



- Five pressure measuring ranges
- Measurement of relative or differential pressure
- Switch outputs PNP, NPN and with analogue current or voltage output
- LCD or illuminated LCD display
- Wide range of connection and mounting options

Detailed product information

→ [www.festo.com/catalogue/sde1](http://www.festo.com/catalogue/sde1)

| Product overview                            |   |                                |                     |   |  |                   |             |
|---|---|--------------------------------|---------------------|---|--|-------------------|-------------|
| Method of measurement                       | Measured variable                                       | Pressure measuring range [bar] | Switching function  | Pneumatic connection  | Type of mounting   | Electrical output |             |
|   |   |                                |                     |   |  | Digital           | Analogue    |
| Piezoresistive pressure sensor with display | Relative pressure<br>Differential and relative pressure | 0 ... -1                       | Freely programmable | Male thread R $\frac{1}{8}$ ,<br>R $\frac{1}{4}$<br>Female thread G $\frac{1}{8}$<br>Push-in fitting for tubing OD 4 mm | On DIN H-rail<br>Via wall/surface bracket<br>On service unit<br>Front panel mounting | PNP               | -           |
|   |   | -1 ... +1                      |                     |   |  | 2x PNP            | -           |
|   |   | 0 ... 2                        |                     |   |  | PNP               | 0 ... 10 V  |
|   |   | 0 ... 6                        |                     |   |  | PNP               | 4 ... 20 mA |
|   |   | 0 ... 10                       |                     |   |  | 2x PNP            | 4 ... 20 mA |
|   |   |                                |                     |   |  | NPN               | -           |
|   |   |                                |                     |   |  | 2x NPN            | -           |
|   |   |                                |                     |   |  | NPN               | 0 ... 10 V  |
|   | NPN   | 4 ... 20 mA                    |                     |   |  |                   |             |

# Pressure sensors SDE1, with display

Type codes

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SDE1 - D10 - G2 - W18 - L - P1 - M12 - G5

| Function |                              |
|----------|------------------------------|
| SDE1     | Pressure sensor with display |

| Pressure measuring range |               |
|--------------------------|---------------|
| V1                       | 0 ... -1 bar  |
| B2                       | -1 ... +1 bar |
| D2                       | 0 ... 2 bar   |
| D6                       | 0 ... 6 bar   |
| D10                      | 0 ... 10 bar  |

| Absolute accuracy |             |
|-------------------|-------------|
| G2                | Accuracy 2% |

| Pneumatic connection and assembly |  |
|-----------------------------------|--|
| R18                               | Male thread R $\frac{1}{8}$ , mounting on service unit   |
| R14                               | Male thread R $\frac{1}{4}$ , mounting on service unit   |
| MS4                               | Direct connection to MS4 series service units            |
| MS6                               | Direct connection to MS6 series service units            |
| H18                               | Female thread G $\frac{1}{8}$ , DIN H-rail mounting      |
| W18                               | Female thread G $\frac{1}{8}$ , wall or surface mounting |
| FQ4                               | Push-in connector QS-4, front panel mounting             |
| HQ4                               | Push-in connector QS-4, DIN H-rail mounting              |
| WQ4                               | Push-in connector QS-4, wall or surface mounting         |

| Display and adjustment |   |
|------------------------|---|
| C                      | LCD display with backlighting (optimised operation) |
| L                      | Illuminated LCD display (optimised reading)         |

| Electrical output |   |
|-------------------|---|
| P1                | 1 switch output PNP                           |
| P2                | 2 switch outputs PNP                          |
| PU                | 1 switch output PNP and 0 ... 10 V analogue   |
| PI                | 1 switch output PNP and 4 ... 20 mA analogue  |
| 2I                | 2 switch outputs PNP and 4 ... 20 mA analogue |
| N1                | 1 switch output NPN                           |
| N2                | 2 switch outputs NPN                          |
| NU                | 1 switch output NPN and 0 ... 10 V analogue   |
| NI                | 1 switch output NPN and 4 ... 20 mA analogue  |

| Electrical connection |            |
|-----------------------|------------|
| M8                    | Plug M8x1  |
| M12                   | Plug M12x1 |

| Accessories                               |            |
|---|------------|
| SIM cable with straight connection socket |            |
| G   | 2.5 m long |
| G5  | 5 m long   |
| SIM cable with angled connection socket   |            |
| W   | 2.5 m long |
| W5  | 5 m long   |

# Pressure sensors SDE1, with display

Technical data

| General technical data                  |       |   |           |         |         |          |
|---|-------|---|-----------|---------|---------|----------|
| Design                                  |       |   |           |         |         |          |
| Pressure measuring range                | [bar] | 0 ... -1  | -1 ... +1 | 0 ... 2 | 0 ... 6 | 0 ... 10 |
| Measured variable                       |       | Relative pressure   |           |         |         |          |
|   |       | Differential pressure   |           |         |         |          |
| Pneumatic connection                    |       | R $\frac{1}{8}$   |           |         |         |          |
|   |       | R $\frac{1}{4}$   |           |         |         |          |
|   |       | G $\frac{1}{8}$   |           |         |         |          |
|   |       | QS-4  |           |         |         |          |
| Type of display                         |       | Back illuminated LCD  |           |         |         |          |
|   |       | Illuminated LCD   |           |         |         |          |
| Accuracy FS <sup>1)</sup>               |       | ±2%   |           |         |         |          |
| Setting options                         |       | Teach-in  |           |         |         |          |
| Type of mounting                        |       | Via DIN H-rail  |           |         |         |          |
|   |       | Via wall/surface bracket  |           |         |         |          |
|   |       | On service unit   |           |         |         |          |
|   |       | Front panel mounting  |           |         |         |          |
| Electrical data                         |       |   |           |         |         |          |
| Switch output                           |       | PNP   |           |         |         |          |
|   |       | NPN   |           |         |         |          |
| Analogue output                         | [V]   | 0 ... 10  |           |         |         |          |
|   | [mA]  | 4 ... 20  |           |         |         |          |
| Switching element function              |       | Switchable  |           |         |         |          |
| Switching function                      |       | Freely programmable   |           |         |         |          |
| Operating voltage range DC              | [V]   | 15 ... 30   |           |         |         |          |
| Max. output current                     | [mA]  | 150   |           |         |         |          |
| Electrical connection                   |       | Plug M8x1, round design to EN 60 947-5-2                                      |           |         |         |          |
|   |       | Plug M12x1, round design to EN 60 947-5-2                                     |           |         |         |          |
| Protection against short circuit        |       | Pulsed  |           |         |         |          |
| Protection against polarity reversal    |       | For all electrical connections  |           |         |         |          |
| Operating and environmental conditions  |       |   |           |         |         |          |
| Operating medium                        |       | Filtered compressed air, lubricated or unlubricated, grade of filtration 40µm |           |         |         |          |
| Ambient temperature                     | [°C]  | 0 ... 50  |           |         |         |          |
| CE mark (see declaration of conformity) |       | In accordance with EU EMC directive   |           |         |         |          |
| Protection class                        |       | IP65  |           |         |         |          |
| Certification                           |       | c UL us - Recognised (OL)   |           |         |         |          |
|   |       | C-Tick  |           |         |         |          |
| Materials                               |       |   |           |         |         |          |
| Housing                                 |       | Polyacetate, reinforced, polyamide  |           |         |         |          |

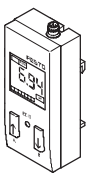
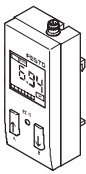

1) % FS = % of measuring range's final value (full scale)

- ¶ - Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

# Pressure sensors SDE1, with display


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Technical data

| Ordering data  |   |               |                   |                       |                   |                          |                         |                         |
|--|---|---------------|-------------------|-----------------------|-------------------|--------------------------|-------------------------|-------------------------|
| Variant  | Pressure measuring range [bar]  | Switch output | Analogue output   | Electrical connection | Type of display   | Part No.                 | Type                    |                         |
| Female thread G $\frac{1}{8}$ , DIN H-rail mounting, relative pressure measurement                       |   |               |                   |                       |                   |                          |                         |                         |
|                         | 0 ... -1  | PNP           | -                 | Plug, M8x1, 3-pin     | LCD <sup>1)</sup> | 192 034                  | SDE1-V1-G2-H18-C-P1-M8  |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 973                  | SDE1-V1-G2-H18-L-P1-M8  |                         |
|  |   | 2x PNP        | -                 | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 192 035                  | SDE1-V1-G2-H18-C-P2-M8  |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 974                  | SDE1-V1-G2-H18-L-P2-M8  |                         |
|  |   | PNP           | 0 ... 10 V        | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 529 959                  | SDE1-V1-G2-H18-C-PU-M8  |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 975                  | SDE1-V1-G2-H18-L-PU-M8  |                         |
|  | 0 ... 10  | PNP           | -                 | Plug, M8x1, 3-pin     | LCD <sup>1)</sup> | 192 030                  | SDE1-D10-G2-H18-C-P1-M8 |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 961                  | SDE1-D10-G2-H18-L-P1-M8 |                         |
|  |   | 2x PNP        | -                 | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 192 031                  | SDE1-D10-G2-H18-C-P2-M8 |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 962                  | SDE1-D10-G2-H18-L-P2-M8 |                         |
|  |   | PNP           | 0 ... 10 V        | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 529 955                  | SDE1-D10-G2-H18-C-PU-M8 |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 963                  | SDE1-D10-G2-H18-L-PU-M8 |                         |
| Push-in connector QS-4, for DIN H-rail mounting, differential pressure and relative pressure measurement |   |               |                   |                       |                   |                          |                         |                         |
|                        | 0 ... -1  | PNP           | -                 | Plug, M8x1, 3-pin     | LCD <sup>1)</sup> | 192 036                  | SDE1-V1-G2-HQ4-C-P1-M8  |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 976                  | SDE1-V1-G2-HQ4-L-P1-M8  |                         |
|  |   | 2x PNP        | -                 | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 192 037                  | SDE1-V1-G2-HQ4-C-P2-M8  |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 977                  | SDE1-V1-G2-HQ4-L-P2-M8  |                         |
|  | 0 ... 2   | 2x PNP        | -                 | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 535 581                  | SDE1-D2-G2-HQ4-C-P2-M8  |                         |
|  | 0 ... 10  | PNP           | -                 | Plug, M8x1, 3-pin     | LCD <sup>1)</sup> | 192 032                  | SDE1-D10-G2-HQ4-C-P1-M8 |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 964                  | SDE1-D10-G2-HQ4-L-P1-M8 |                         |
|  |   | 2x PNP        | -                 | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 192 033                  | SDE1-D10-G2-HQ4-C-P2-M8 |                         |
|  |   |               |                   |                       | Illuminated LCD   | 529 965                  | SDE1-D10-G2-HQ4-L-P2-M8 |                         |
|  | PNP   | 0 ... 10 V    | Plug, M8x1, 4-pin | LCD <sup>1)</sup>     | 529 956           | SDE1-D10-G2-HQ4-C-PU-M8  |                         |                         |
|  | Female thread G $\frac{1}{8}$ , for wall or surface mounting, relative pressure measurement <sup>2)</sup> |               |                   |                       |                   |                          |                         |                         |
|  |                        | 0 ... -1      | PNP               | -                     | Plug M12x1, 3-pin | Illuminated LCD          | 534 065                 | SDE1-V1-G2-W18-L-P1-M12 |
| Plug, M8x1, 4-pin  |   |               |                   |                       | 537 022           |                          | SDE1-V1-G2-W18-L-PI-M8  |                         |
| Plug M12x1, 4-pin  |   |               |                   |                       | 537 023           |                          | SDE1-V1-G2-W18-L-PI-M12 |                         |
| 0 ... 2  |   | PNP           | -                 | Plug, M8x1, 3-pin     | 537 024           | SDE1-D2-G2-W18-L-P1-M8   |                         |                         |
|  |   |               |                   | 2x PNP                | -                 | Plug, M8x1, 4-pin        | 537 025                 | SDE1-D2-G2-W18-L-P2-M8  |
| 0 ... 6  |   | PNP           | -                 | Plug, M8x1, 3-pin     | 537 026           | SDE1-D6-G2-W18-L-P1-M8   |                         |                         |
|  |   |               |                   | 2x PNP                | -                 | Plug, M8x1, 4-pin        | 537 027                 | SDE1-D6-G2-W18-L-P2-M8  |
| 0 ... 10   |   | PNP           | -                 | Plug M12x1, 3-pin     | 534 063           | SDE1-D10-G2-W18-L-P1-M12 |                         |                         |
|  |   |               |                   | 0 ... 10 V            | Plug, M8x1, 4-pin | 530 900                  | SDE1-D10-G2-W18-L-PU-M8 |                         |
|  |   | 2x PNP        | 4 ... 20 mA       | Plug M12x1, 5-pin     | 534 062           | SDE1-D10-G2-W18-L-2I-M12 |                         |                         |
|  |   |               |                   | Plug, M8x1, 4-pin     | 537 020           | SDE1-D10-G2-W18-L-PI-M8  |                         |                         |
|  |   | PNP           | 4 ... 20 mA       | Plug M12x1, 4-pin     | 537 021           | SDE1-D10-G2-W18-L-PI-M12 |                         |                         |

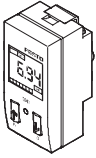
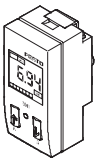
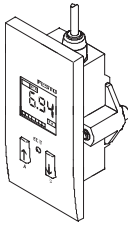
1) Back illuminated

2) Adapter plate SDE1-...-W... included in the scope of delivery.


-  - Note  
Additional variants and accessories can be configured and ordered through the SDE1 modular system  
➔ 6.

# Pressure sensors SDE1, with display

Technical data

| Ordering data   |                                |                         |                 |                       |                   |          |                          |
|---|--------------------------------|-------------------------|-----------------|-----------------------|-------------------|----------|--------------------------|
| Variant   | Pressure measuring range [bar] | Switch output           | Analogue output | Electrical connection | Type of display   | Part No. | Type                     |
| Male thread R $\frac{1}{8}$ , mounting on service unit (D series), relative pressure measurement          |                                |                         |                 |                       |                   |          |                          |
|                          | 0 ... 10                       | PNP                     | –               | Plug, M8x1, 3-pin     | LCD <sup>1)</sup> | 192 026  | SDE1-D10-G2-R18-C-P1-M8  |
|   |                                |                         |                 |                       | Illuminated LCD   | 529 970  | SDE1-D10-G2-R18-L-P1-M8  |
|   |                                |                         |                 | Plug M12x1, 3-pin     | Illuminated LCD   | 534 064  | SDE1-D10-G2-R18-L-P1-M12 |
|   |                                | 2x PNP                  | –               | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 192 027  | SDE1-D10-G2-R18-C-P2-M8  |
|   |                                | PNP                     | 0 ... 10 V      | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 529 958  | SDE1-D10-G2-R18-C-PU-M8  |
|   |                                |                         |                 |                       | Illuminated LCD   | 529 972  | SDE1-D10-G2-R18-L-PU-M8  |
| Male thread R $\frac{1}{4}$ , mounting on service unit (D series), relative pressure measurement          |                                |                         |                 |                       |                   |          |                          |
|                          | 0 ... 10                       | PNP                     | –               | Plug, M8x1, 3-pin     | LCD <sup>1)</sup> | 192 028  | SDE1-D10-G2-R14-C-P1-M8  |
|   |                                |                         |                 |                       | Illuminated LCD   | 529 967  | SDE1-D10-G2-R14-L-P1-M8  |
|   |                                |                         |                 | Plug M12x1, 3-pin     | Illuminated LCD   | 534 157  | SDE1-D10-G2-R14-L-P1-M12 |
|   |                                | 2x PNP                  | –               | Plug, M8x1, 4-pin     | LCD <sup>1)</sup> | 192 029  | SDE1-D10-G2-R14-C-P2-M8  |
|   |                                | PNP                     | 0 ... 10 V      | Plug, M8x1, 4-pin     | Illuminated LCD   | 529 968  | SDE1-D10-G2-R14-L-P2-M8  |
|   |                                |                         |                 |                       | LCD <sup>1)</sup> | 529 957  | SDE1-D10-G2-R14-C-PU-M8  |
| Illuminated LCD   | 529 969                        | SDE1-D10-G2-R14-L-PU-M8 |                 |                       |                   |          |                          |
| Push-in connector QS-4, for front panel mounting, differential pressure and relative pressure measurement |                                |                         |                 |                       |                   |          |                          |
|                        | 0 ... 10                       | PNP                     | –               | Plug, M8x1, 3-pin     | Illuminated LCD   | 537 028  | SDE1-D10-G2-FQ4-L-P1-M8  |
|   |                                |                         |                 | Plug M12x1, 3-pin     |                   | 537 030  | SDE1-D10-G2-FQ4-L-P1-M12 |
|   |                                | 2x PNP                  | –               | Plug, M8x1, 4-pin     |                   | 537 029  | SDE1-D10-G2-FQ4-L-P2-M8  |
|   |                                |                         |                 | Plug M12x1, 4-pin     |                   | 537 031  | SDE1-D10-G2-FQ4-L-P2-M12 |

1) Back illuminated

 Note  
Additional variants and accessories can be configured and ordered through the SDE1 modular system  
➔ 6.

# Pressure sensors SDE1, with display

Modular product system



| M Mandatory data     |          |                     |                   |   |                        |                                |                       | O Options                |
|----------------------|----------|---------------------|-------------------|---|------------------------|--------------------------------|-----------------------|--------------------------|
| Module No.           | Function | Pressure range      | Absolute accuracy | Pneumatic connection and assembly           | Display and adjustment | Electrical output              | Electrical connection | Accessories: Plug socket |
| 192 766              | SDE1     | B2, V1, D2, D6, D10 | G2                | R18, R14, MS4, MS6, H18, W18, HQ4, WQ4, FQ4 | C, L                   | P1, P2, PU, PI, N1, N2, NU, NI | M8, M12               | G, W, G5, W5             |
| <b>Order example</b> |          |                     |                   |   |                        |                                |                       |                          |
| 192 766              | SDE1     | - D6                | - G2              | - W18                                       | - L                    | - P2                           | - M12                 | - W5                     |

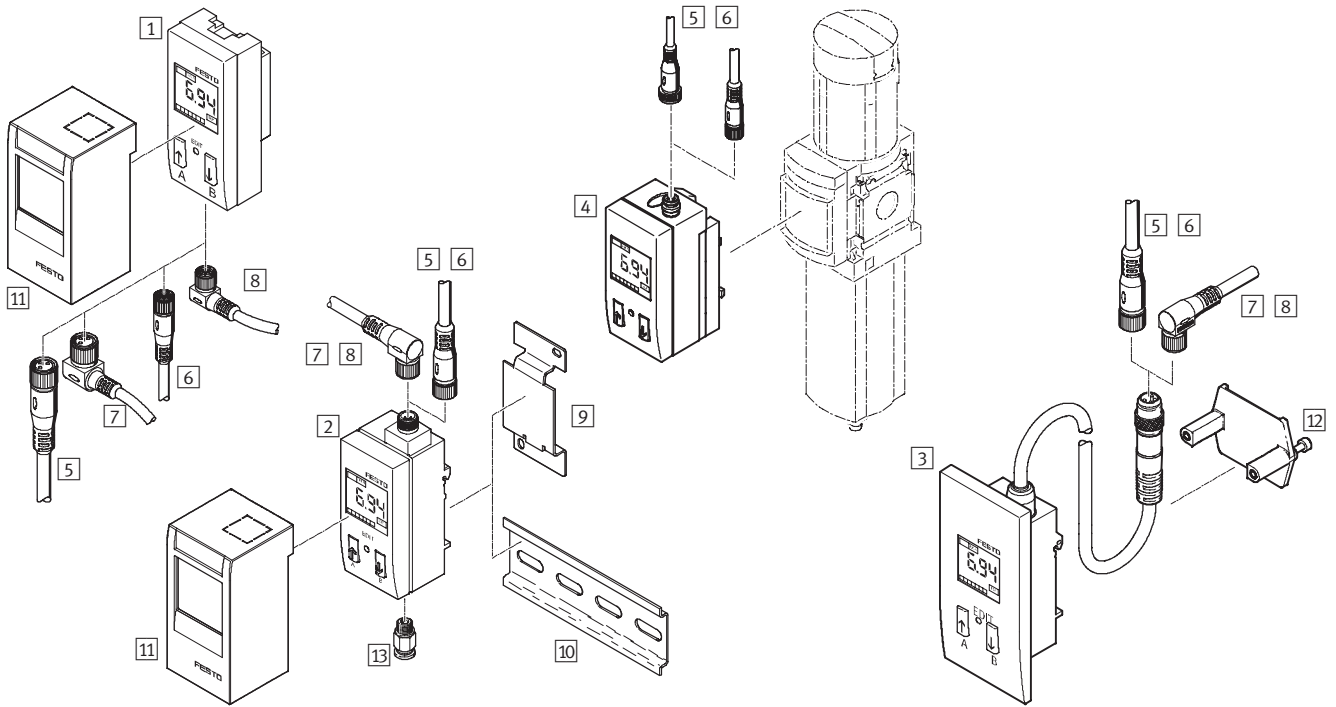
| Ordering table |  | Condi-tions  | Code | Enter code |
|----------------|--|--|------|------------|
| M              | Module No.                                   | 192 766  |      |            |
|                | Function                                     | Pressure sensor  | SDE1 | SDE1       |
|                | Pressure range                               | Pressure range -1 ... 1 bar  | -B2  |            |
|                |  | Pressure range 0 ... -1 bar  | -V1  |            |
|                |  | Pressure range 0 ... 2 bar   | -D2  |            |
|                |  | Pressure range 0 ... 6 bar   | -D6  |            |
|                |  | Pressure range 0 ... 10 bar  | -D10 |            |
|                | Absolute accuracy                            | Accuracy 2%  | -G2  | -G2        |
|                | Pneumatic connection and assembly            | Mounting R $\frac{1}{8}$ (service units)                                       | -R18 |            |
|                |  | Mounting R $\frac{1}{4}$ (service units)                                       | -R14 |            |
|                |  | Direct connection, service units, MS4 series                                   | -MS4 |            |
|                |  | Direct connection, service units, MS6 series                                   | -MS6 |            |
|                |  | Relative pressure with G $\frac{1}{8}$ connection for DIN H-rail mounting      | -H18 |            |
|                |  | Relative pressure with G $\frac{1}{8}$ connection for wall or surface mounting | -W18 |            |
|                |  | DIN H-rail mounting, 4 mm push-in connector                                    | -HQ4 |            |
|                |  | Wall mounting, 4 mm push-in connector  | -WQ4 |            |
|                | Front panel mounting, 4 mm push-in connector | -FQ4   |      |            |
|                | Display and adjustment                       | LCD display (optimised operation)  | -C   |            |
|                |  | Illuminated LCD (reading optimised)  | -L   |            |
|                | Electrical output                            | 1 switch (PNP)   | -P1  |            |
|                |  | 2 switches (PNP)   | -P2  |            |
|                |  | 1 switch (PNP) and 0 ... 10 V analogue   | -PU  |            |
|                |  | 1 switch (PNP) and 4 ... 20 mA analogue  | -PI  |            |
|                |  | 1 switch (NPN)   | -N1  |            |
|                |  | 2 switches (NPN)   | -N2  |            |
|                |  | 1 switch (NPN) and 0 ... 10 V analogue   | -NU  |            |
|                |  | 1 switch (NPN) and 4 ... 20 mA analogue  | -NI  |            |
|                | Electrical connection                        | M8 plug  | -M8  |            |
|                |  | M12 plug   | -M12 |            |
| O              | Accessories                                  |  | -    | -          |
|                | Plug socket                                  | 2.5 m SIM cable with straight connection socket                                | G    |            |
|                |  | 2.5 m SIM cable with angled connection socket                                  | W    |            |
|                |  | 5 m SIM cable with straight connection socket                                  | G5   |            |
|                |  | 5 m SIM cable with angled connection socket                                    | W5   |            |

### Transfer order code

|         |      |   |  |   |    |   |  |   |  |   |  |   |  |   |  |
|---------|------|---|--|---|----|---|--|---|--|---|--|---|--|---|--|
| 192 766 | SDE1 | - |  | - | G2 | - |  | - |  | - |  | - |  | - |  |
|---------|------|---|--|---|----|---|--|---|--|---|--|---|--|---|--|

# Pressure sensors SDE1, with display

Peripherals overview



| Accessories |  |
|-------------|--|
| 1           | Pressure sensor SDE1-...-R14                       |
| 2           | Pressure sensor SDE1-...-H18, SDE1-...-W18         |
| 3           | Pressure sensor SDE1-...-FQ4                       |
| 4           | Pressure sensor SDE1-...-MS...                     |
| 5           | Connecting cable NEBU-M12G... with straight socket |
| 6           | Connecting cable NEBU-M8G... with straight socket  |
| 7           | Connecting cable NEBU-M12W... with angled socket   |

| Accessories |  |
|-------------|--|
| 8           | Connecting cable NEBU-M8W... with angled socket                  |
| 9           | Adapter plate SDE1-...-W...                                      |
| 10          | Mounting rail to DIN EN 60715                                    |
| 11          | Safety guard SDE1-SH   |
| 12          | Clamping plate (included in scope of delivery with SDE1-...-FQ4) |
| 13          | Push-in fitting QS- $\frac{1}{8}$                                |

| Ordering data – Connecting cables |                 |                  |          |                     |
|-----------------------------------|-----------------|------------------|----------|---------------------|
| Technical data → Internet: nebu   |                 |                  |          |                     |
|                                   | Number of wires | Cable length [m] | Part No. | Type                |
| <b>M8x1, straight socket</b>      |                 |                  |          |                     |
|                                   | 3               | 2.5              | 541 333  | NEBU-M8G3-K-2.5-LE3 |
|                                   |                 | 5                | 541 334  | NEBU-M8G3-K-5-LE3   |
|                                   | 4               | 2.5              | 541 342  | NEBU-M8G4-K-2.5-LE4 |
|                                   |                 | 5                | 541 343  | NEBU-M8G4-K-5-LE4   |
| <b>M8x1, angled socket</b>        |                 |                  |          |                     |
|                                   | 3               | 2.5              | 541 338  | NEBU-M8W3-K-2.5-LE3 |
|                                   |                 | 5                | 541 341  | NEBU-M8W3-K-5-LE3   |
|                                   | 4               | 2.5              | 541 344  | NEBU-M8W4-K-2.5-LE4 |
|                                   |                 | 5                | 541 345  | NEBU-M8W4-K-5-LE4   |

| Ordering data – Connecting cables |                 |                  |                    |                      |
|-----------------------------------|-----------------|------------------|--------------------|----------------------|
| Technical data → Internet: nebu   |                 |                  |                    |                      |
|                                   | Number of wires | Cable length [m] | Part No.           | Type                 |
| <b>M12x1, straight socket</b>     |                 |                  |                    |                      |
|                                   | 3               | 2.5              | 541 363            | NEBU-M12G5-K-2.5-LE3 |
|                                   |                 | 5                | 541 364            | NEBU-M12G5-K-5-LE3   |
|                                   | 4               | 5                | 541 328            | NEBU-M12G5-K-5-LE4   |
|                                   |                 | 2.5              | 541 330            | NEBU-M12G5-K-2.5-LE5 |
|                                   | 5               | 541 331          | NEBU-M12G5-K-5-LE5 |                      |
| <b>M12x1, angled socket</b>       |                 |                  |                    |                      |
|                                   | 3               | 2.5              | 541 367            | NEBU-M12W5-K-2.5-LE3 |
|                                   |                 | 5                | 541 370            | NEBU-M12W5-K-5-LE3   |
|                                   | 4               | 5                | 541 329            | NEBU-M12W5-K-5-LE4   |

| Ordering data – Push-in fittings      |                      |          |                       |
|---------------------------------------|----------------------|----------|-----------------------|
| Technical data → Internet: quick star |                      |          |                       |
|                                       | For tubing O.D. [mm] | Part No. | Type                  |
|                                       | 4                    | 186 095  | QS-G $\frac{1}{8}$ -4 |
|                                       | 6                    | 186 096  | QS-G $\frac{1}{8}$ -6 |
|                                       | 8                    | 186 098  | QS-G $\frac{1}{8}$ -8 |

| Ordering data – Accessories |                       |
|-----------------------------|-----------------------|
|                             | Part No. Type         |
|                             | 194 297 SDE1-...-W... |
|                             | 537 074 SDE1-SH       |