# Traductor de presiune SPTE



# Caracteristici

## La prima vedere



- Design compact
- foarte usor
- Diferite posibilitati de racordare pneumatica
- Diferite intervale de presiune
- Semnal de iesire 0 ... 10 V sau 1 ... 5 V

## Interval de masurare a presiunii

| | |
|---|---|
| [B2] | -1 ... 1 bari |
| [P10] | 0 ... 10 bar |
| [V1] | 0 ... -1 bar |

## Conexiune pneumatica

| | |
|---|---|
| [F] | Flansa/placa de racordare |
| [Q3] | Cuplaj rapid 3 mm |
| [Q4] | Conector cu fisa 4 mm |
| [S4] | Bucsa 4 mm |
| [S6] | Bucsa 6 mm |
| [PC10] | Cartus 10 mm |







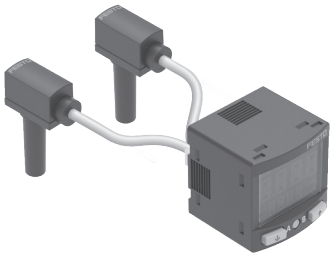






# Caracteristici

**Descriere**



- Unul sau doua traductoare de presiune SPTE pot fi conectate la un convertor de semnal SCDN
- Afisarea valorii masurate cu unitati selectabile
- Afisaj albastru cu litere albe cu contrast ridicat si comutare rosie
- IO-Link®/2 iesiri de comutare PNP sau NPN
- Monitorizare min./max.

# Cod tip

| 001 | Serie | |
|---|---|---|
| **SPTE** | Traductor de presiune SPTE | |

| 002 | Interval de masurare a presiunii | |
|---|---|---|
| **B2** | -1 ... 1 bari | |
| **P10** | 0 ... 10 bar | |
| **V1** | 0 ... -1 bar | |

| 003 | Intrare presiune | |
|---|---|---|
| **R** | Presiune relativa | |

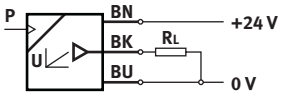
| 004 | Conexiune pneumatica | |
|---|---|---|
| **F** | Flansa/placa de racordare | |
| **PC10** | Cartus 10 mm | |
| **Q3** | Cuplaj rapid 3 mm | |
| **Q4** | Conector cu fisa 4 mm | |
| **S4** | Bucsa 4 mm | |
| **S6** | Bucsa 6 mm | |

| 005 | Iesire electrica 1 | |
|---|---|---|
| **B** | 1 ... 5 V | |
| **V** | 0 ... 10 V | |

| 006 | Conexiune electrica | |
|---|---|---|
| **2.5K** | Cablu 2,5 m, capat deschis | |

# Fisa de date

## Date tehnice generale




| | |
|---|---|
| Autorizare | RCM Mark, c UL us - recunoscut (OL) |
| Marca CE (consultati Declaratia de conformitate)[1)] | conform Directivei UE privind CEM, conform directivei RoHS a UE |
| Marca UKCA (consultati Declaratia de conformitate) | conform reglementarilor UK privind EMC, conform reglementarilor RoHS din UK |
| Organizatia emitenta a certificatului | UL E322346 |
| Nota privind materialele | Conform RoHS |

1) Va rugam sa consultati Declaratia de conformitate pentru domeniul de utilizare: www.festo.com/catalogue/SPTE → Support/Downloads. Daca exista restrictii privind utilizarea aparatelor in zonele rezidentiale, de afaceri si comerciale, precum si in intreprinderile mici, pot fi necesare masuri suplimentare pentru reducerea interferentelor emise.

## Semnal de intrare, element de masurare

| | | | |
|---|---|---|---|
| Interval de masurare a presiunii | -1 ... 1 bari [B2] | 0 ... 10 bar [P10] | 0 ... -1 bar [V1] |
| Variabila masurata | Presiune relativă | | |
| Metoda de masurare | Senzor de presiune piezorezistent | | |
| Valoare initiala a domeniului de masurare a presiunii | -0,1 MPa | 0 MPa | |
| Valoarea finala a domeniului de masurare a presiunii | 0,1 MPa | 1 MPa | -0,1 MPa |
| Valoare initiala a domeniului de masurare a presiunii | -1 bar | 0 bar | |
| Valoarea finala a domeniului de masurare a presiunii | 1 bar | 10 bar | -1 bar |
| Valoarea initiala a domeniului de masurare a presiunii | -14,5 psi | 0 psi | |
| Valoarea finala a domeniului de masurare a presiunii | 14,5 psi | 145 psi | -14,5 psi |
| Presiunea de suprasarcina | 0,5 MPa | 1,5 MPa | 0,5 MPa |
| Presiune de suprasarcina | 5 bar | 15 bar | 5 bar |
| Presiune de suprasarcina | 72,5 psi | 217,5 psi | 72,5 psi |
| Mediu de operare | Aer comprimat conform ISO 8573-1:2010 [7:4:4] | | |
| Nota referitoare la mediul de lucru/comanda | Este posibila functionarea cu ulei | | |
| Temperatura medie | 0 ... 50°C | | |
| Temperatura ambianta | 0 ... 50°C | | |

## Iesire, general

| | |
|---|---|
| Precizia in ± % FS[1)] | 3 %FS |
| Precizie de repetare in ± %FS | 0,3 %FS |
| Coeficient de temperatura in ± %FS/K | 0,05 %FS/K |

1) % FS = % din domeniul de masurare (scala completa)

## Iesire analogica

| | | |
|---|---|---|
| Iesire electrica 1 | 1 ... 5 V [B] | 0 ... 10 V [V] |
| Timp de crestere | 1 ms | |
| Rezistenta de sarcina min. iesire tensiune | 15 kOhm | |

## Iesire, date suplimentare

| | |
|---|---|
| Rezistenta la scurtcircuit | pentru toate conexiunile electrice |

# Fisa de date

| Electronic | | |
|---|---|---|
| Iesire electrica 1 | 1 ... 5 V [B] | 0 ... 10 V [V] |
| Domeniu de tensiune de lucru CC | 10 ... 30 V | 18 ... 30 V |
| Protectie la polaritate inversa | pentru toate conexiunile electrice | |

| Electromecanic | |
|---|---|
| Conector electric | 3 fire, Cablu, Capat deschis |
| Lungime cablu | 2,5 m |

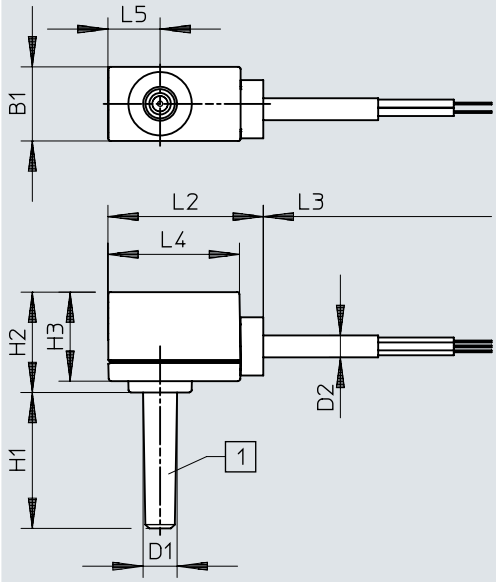
| Mecanica | | | | | | |
|---|---|---|---|---|---|---|
| Conexiune pneumatica | Cartus de 10 mm | Flanşă | QS-3 | QS-4 | Bucsa QS-4 | Bucsa QS-6 |
| Tipul de montare | Conector tip pin | cu orificiu de trecere si surub | cu accesorii | | cuplabil | |
| Pozitie de instalare | oricare | | | | | |
| Greutate produs | 35 g | | | | | |
| Material carcasa | Ranforsat cu PA | | | | | |
| Material inel de etansare | FPM, Cauciuc nitrilic | FPM | FPM, Cauciuc nitrilic | | FPM | |

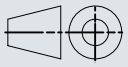
| Imisie, emisie | | | | | | |
|---|---|---|---|---|---|---|
| Conexiune pneumatica | Cartus de 10 mm | Flanşă | QS-3 | QS-4 | Bucsa QS-4 | Bucsa QS-6 |
| Tip de protectie | IP40 | | | | | |
| Clasa de rezistenta la coroziune KBK[1)] | 2 - Solicitare moderata din cauza coroziunii | | | | | |
| Conformitatea LABS | VDMA24364-B2-L | | | | | |
| Potrivit pentru productia de baterii Li-ion | Potrivit pentru productia de baterii cu valori reduse de Cu/Zn/Ni (F1a) | – | | | Potrivit pentru productia de baterii cu valori reduse de Cu/Zn/Ni (F1a) | |

1) Clasa de rezistenta la coroziune KBK2 conform normei Festo FN 940070. Rezistenta moderata la coroziune. Utilizare in interior, cu posibilitatea aparitiei condensului. Piese vizibile la exterior, cu cerinte referitoare la suprafata, in principal decorative, fiind in contact direct cu atmosfera industriala inconjuratoare.

# Dimensiuni

**Dimensiuni – SPTE-...-S...** Descarcarea datelor CAD www.festo.com



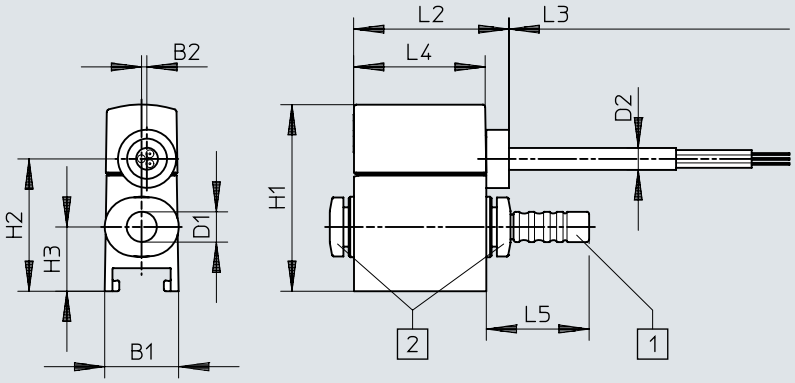



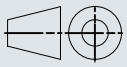
[1] Conexiune pneumatica

| | B1 | D1<br>ø | D2<br>ø | H1 | H2 | H3 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|
| SPTE-...-S4 | 9,8 | 4 | 2,9 | 18 | 13,3 | 11,8 | 20,5 | 2500 | 17,5 | 6,8 |
| SPTE-...-S6 | | 6 | | 21 | | | | | | |

# Dimensiuni

**Dimensiuni – SPTE-...-Q...** Descarcarea datelor CAD www.festo.com



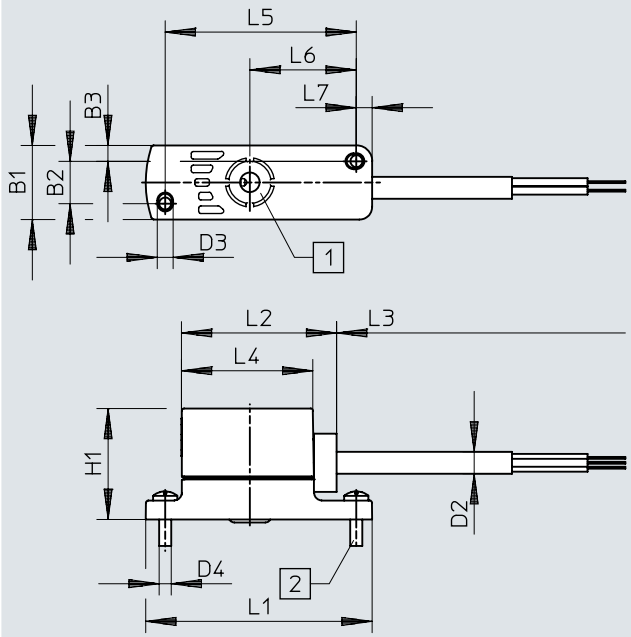



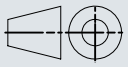
[1] Obturator
[2] Conexiune pneumatica

| | B1 | B2 | D1<br>ø | D2<br>ø | H1 | H2 | H3 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPTE-...-Q3 | 9,8 | 0,7 | 3 | 2,9 | 24,7 | 17,5 | 8,5 | 20,5 | 2500 | 17,5 | 13,6 |
| SPTE-...-Q4 | | | 4 | | | | | | | | |

# Dimensiuni

**Dimensiuni – SPTE-...-F** Descarcarea datelor CAD www.festo.com



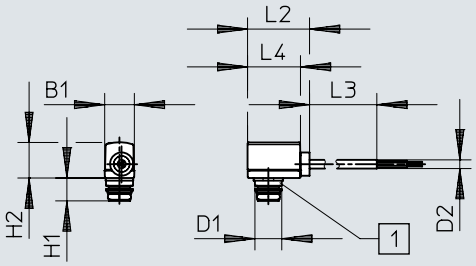



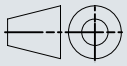
[1] Racord pneumatic cu garnitura inelara pentru montare plana
[2] Surub M2x6

| | B1 | B2 | B3 | D2 ø | D3 ø | D4 | H1 | L1 | L2 | L3 | L4 | L5 | L6 | L7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPTE-...-F | 9,8 | 5,4 | 2,1 | 2,9 | 2,1 | M2x6 | 15 | 30 | 20,5 | 2500 | 17,5 | 25 | 13,9 | 2,3 |

# Dimensiuni

**Dimensiuni – SPTE...PC10...** Descarcarea datelor CAD www.festo.com



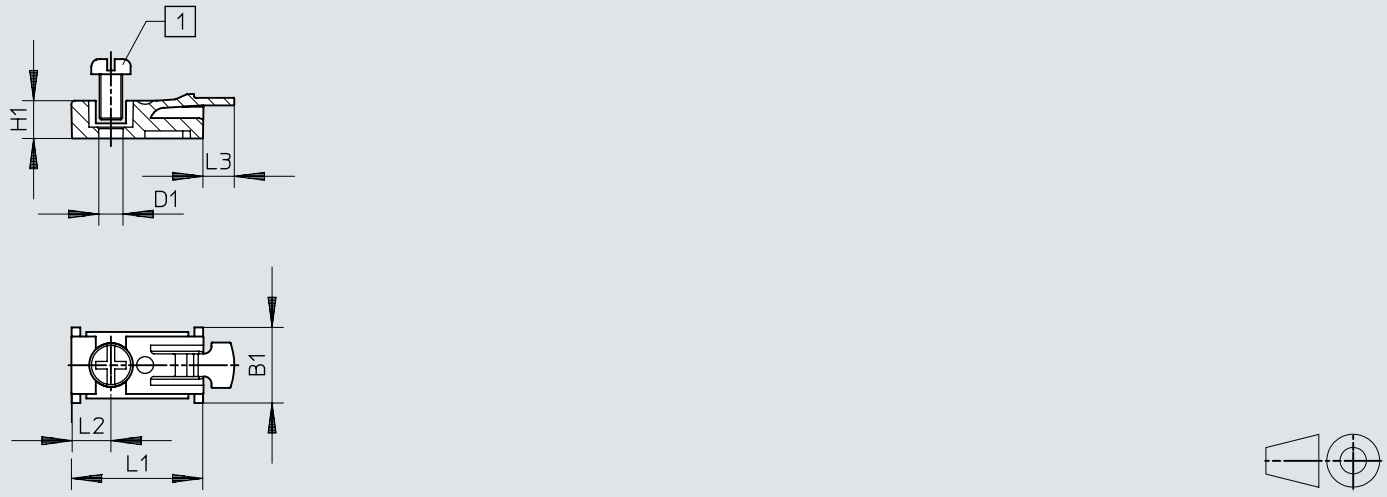



[1] Conexiune pneumatica: cartus cu pini 10 mm

| | B1 | D1<br>ø | D2<br>ø | H1 | H2 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|---|---|
| SPTE-...-PC10 | 9,8 | 8,9 | 2,9 | 7,6 | 11,7 | 20,5 | 2500 | 17,5 |

# Dimensiuni

**Dimensiuni – Clema de fixare SAMH-PE-MC-1** Descarcarea datelor CAD www.festo.com

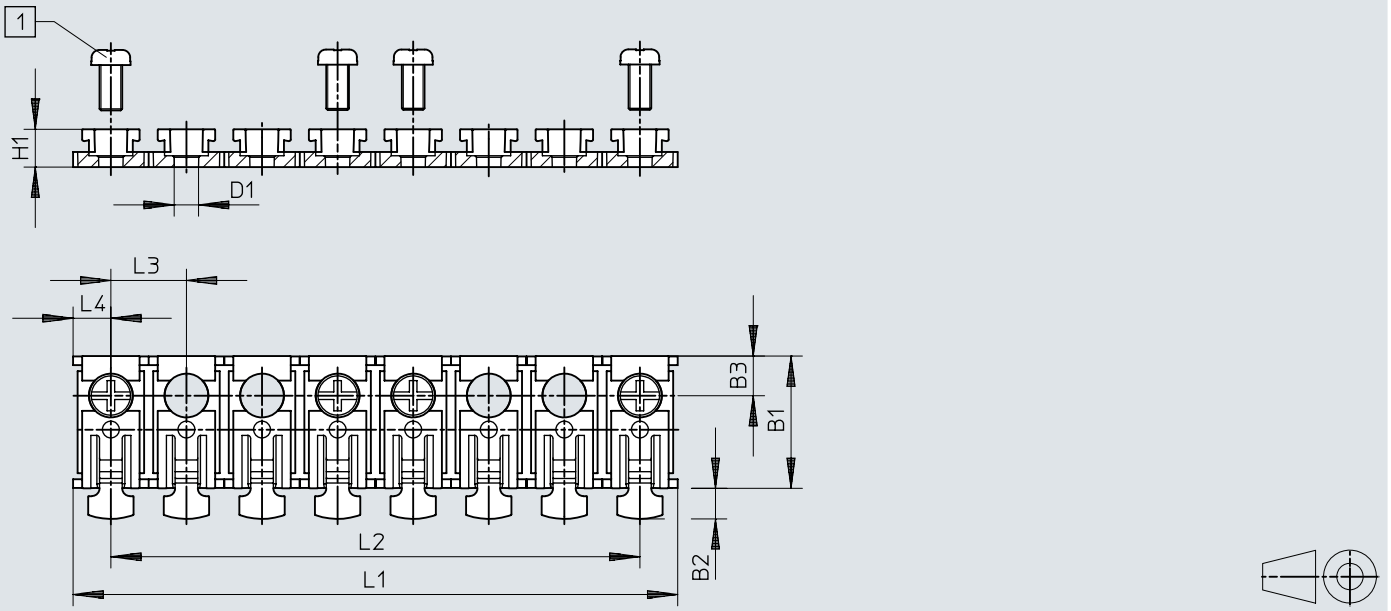



[1] Surub M3x6 (inclus in setul de livrare)

| | B1 | D1<br>ø | H1 | L1 | L2 | L3 |
|---|---|---|---|---|---|---|
| SAMH-PE-MC-1 | 10 | 3,2 | 5 | 17,5 | 5,3 | 4 |

# Dimensiuni

**Dimensiuni – Clema de fixare SAMH-PE-MC-8** Descarcarea datelor CAD www.festo.com

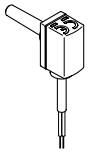



[1] Surub M3x6 (4 bucati incluse in livrare)

| | B1 | B2 | B3 | D1<br>ø | H1 | L1 | L2 | L3 | L4 |
|---|---|---|---|---|---|---|---|---|---|
| SAMH-PE-MC-8 | 17,5 | 4 | 5,3 | 3,2 | 5 | 80 | 70 | 10 | 5 |

# Detalii comanda

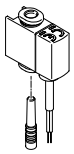
## Detalii de comanda – Bucsa



| Valoare initiala a domeniului de masurare a presiunii [1] | Valoarea finala a domeniului de masurare a presiunii | Conexiune pneumatica | Nr. piesa | Tip |
|---|---|---|---|---|
| 0 bar | -1 bar | Bucsa QS-4 | **571474** | **SPTE-V1R-S4-V-2.5K** |
| | | | **571469** | **SPTE-V1R-S4-B-2.5K** |
| | | Bucsa QS-6 | **571475** | **SPTE-V1R-S6-V-2.5K** |
| | | | **571470** | **SPTE-V1R-S6-B-2.5K** |
| | 10 bar | Bucsa QS-4 | **571479** | **SPTE-P10R-S4-B-2.5K** |
| | | | **571484** | **SPTE-P10R-S4-V-2.5K** |
| | | Bucsa QS-6 | **571480** | **SPTE-P10R-S6-B-2.5K** |
| | | | **571485** | **SPTE-P10R-S6-V-2.5K** |

1) Alte intervale de presiune, la cerere (lot de 80 de bucati)

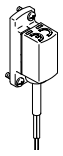
## Detalii de comanda – Conector



| Valoare initiala a domeniului de masurare a presiunii [1] | Valoarea finala a domeniului de masurare a presiunii | Conexiune pneumatica | Nr. piesa | Tip |
|---|---|---|---|---|
| 0 bar | -1 bar | QS-3 | **571476** | **SPTE-V1R-Q3-V-2.5K** |
| | | | **571471** | **SPTE-V1R-Q3-B-2.5K** |
| | | QS-4 | **571472** | **SPTE-V1R-Q4-B-2.5K** |
| | | | **571477** | **SPTE-V1R-Q4-V-2.5K** |
| | 10 bar | QS-3 | **571481** | **SPTE-P10R-Q3-B-2.5K** |
| | | | **571486** | **SPTE-P10R-Q3-V-2.5K** |
| | | QS-4 | **571487** | **SPTE-P10R-Q4-V-2.5K** |
| | | | **571482** | **SPTE-P10R-Q4-B-2.5K** |

1) Alte intervale de presiune, la cerere (lot de 80 de bucati)

## Detalii pentru comanda – Flansa

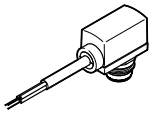


| Valoare initiala a domeniului de masurare a presiunii [1] | Valoarea finala a domeniului de masurare a presiunii | Conexiune pneumatica | Nr. piesa | Tip |
|---|---|---|---|---|
| 0 bar | -1 bar | Flanşă | **571478** | **SPTE-V1R-F-V-2.5K** |
| | | | **571473** | **SPTE-V1R-F-B-2.5K** |
| | 10 bar | | **571483** | **SPTE-P10R-F-B-2.5K** |
| | | | **571488** | **SPTE-P10R-F-V-2.5K** |

1) Alte intervale de presiune, la cerere (lot de 80 de bucati)

# Detalii comanda

**Detalii pentru comanda – Cartus**

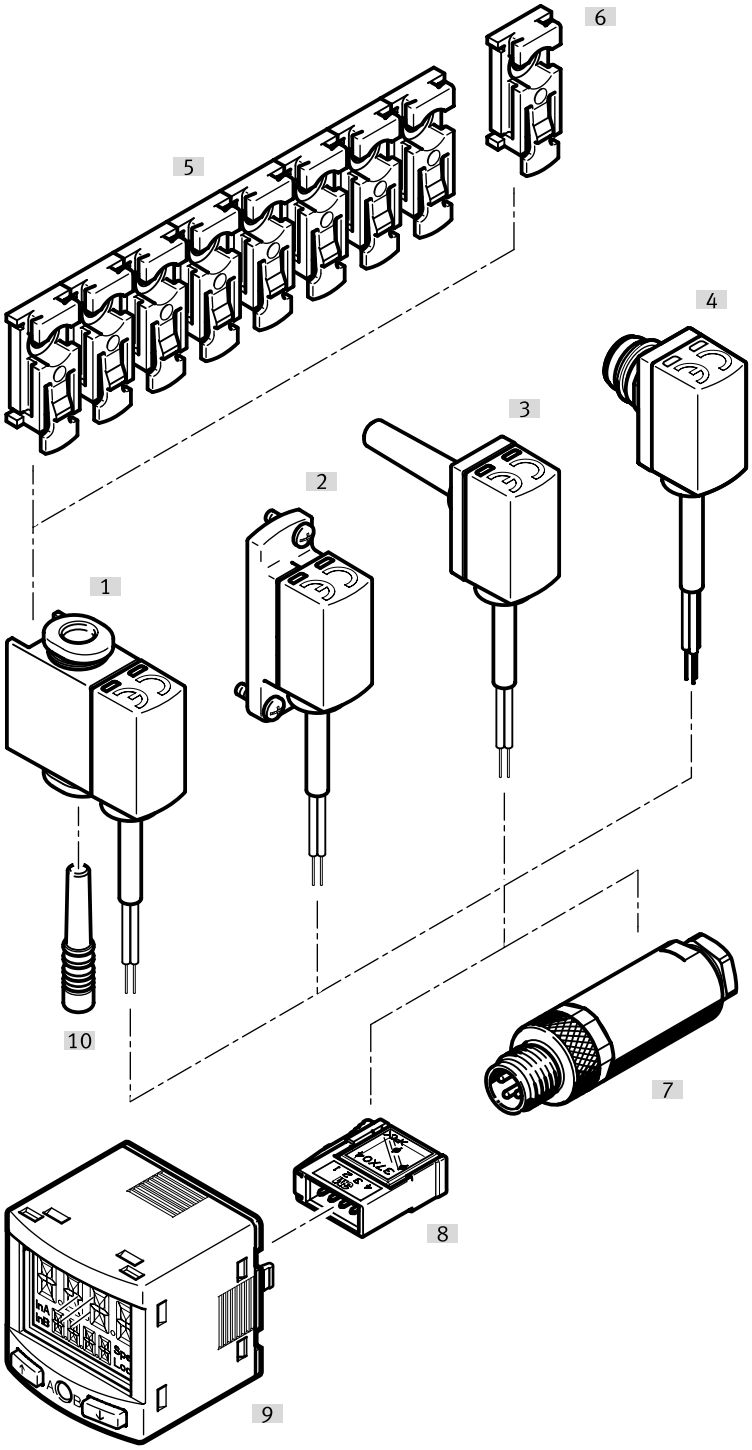


| Valoare initiala a domeniului de masurare a presiunii [1] | Valoarea finala a domeniului de masurare a presiunii | Conexiune pneumatica | Nr. piesa | Tip |
|---|---|---|---|---|
| -1 bar | 1 bar | Cartus de 10 mm | **8025977** | **SPTE-B2R-PC10-B-2.5K** |
| | | | **8025976** | **SPTE-B2R-PC10-V-2.5K** |
| 0 bar | -1 bar | | **8025975** | **SPTE-V1R-PC10-B-2.5K** |
| | | | **8025974** | **SPTE-V1R-PC10-V-2.5K** |

1) Alte intervale de presiune, la cerere (lot de 80 de bucati)

# Prezentare generala a perifericelor

## Prezentare generala a perifericelor



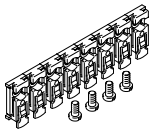

| Accesorii | | | → Pagina/Internet |
|---|---|---|---|
| | Tip/Cod de comanda | Descriere | |
| [1] | Traductor de presiune SPTE-...-Q... | cu conector de 3 mm sau 4 mm | 🔗 spte |
| [2] | Traductor de presiune SPTE-...-F... | cu flansa/placa de racordare | 🔗 spte |
| [3] | Traductor de presiune SPTE-...-S... | cu bucsa de 4 mm sau 6 mm | 🔗 spte |
| [4] | Traductor de presiune SPTE-...-PC10... | cu cartus 10 mm | 🔗 spte |
| [5] | Clema de fixare SAMH-PE-MC-8 | poate fi scurtat la numarul dorit de sloturi | 17 |
| [6] | Clema de fixare SAMH-PE-MC-1 | – | 17 |
| [7] | Stecher | 3 pini, drept | |
| [8] | Stecher NECU-S-M8G3-HX-Q3 | - | 17 |
| [9] | Convertor de semnal SCDN-2V-EC4-PNLK-L1 | – | 🔗 scdn |

## Prezentare generala a perifericelor

| Accesorii | | | → Pagina/Internet |
|---|---|---|---|
| | Tip/Cod de comanda | Descriere | |
| [10] | Obturator QSMC-3H | (la SPTE-...-Q... inclusa in setul de livrare) | qs |

# Accesorii

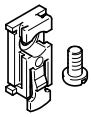
**Clema de fixare SAMH-PE-MC-8**



| Material fixare [1] | Nota privind materialele | Nr. piesa | Tip |
|---|---|---|---|
| POM | Conform RoHS | **571490** | **SAMH-PE-MC-8** |

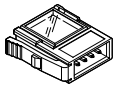
1) Clema de fixare SAMH-PE-MC-8 poate fi scurtata de catre utilizator pana la numarul necesar de fante.

**Clema de fixare SAMH-PE-MC-1**



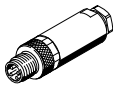
| Material fixare | Nota privind materialele | Nr. piesa | Tip |
|---|---|---|---|
| POM | Conform RoHS | **571489** | **SAMH-PE-MC-1** |

**Stecher, 4 pini, forma constructiva patrata**



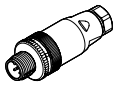
| Conector electric | Material carcasa | Nr. piesa | Tip |
|---|---|---|---|
| 4 pini, Stecher drept / clema de taiere, design patrat | PBT, Makrolon® | **570922** | **NECU-S-ECG4-HX-Q3** |

**Stecher NECU-S-M8G3-HX-Q3**



| Conector electric | Material carcasa | Nr. piesa | Tip |
|---|---|---|---|
| 3 pini, M8x1, Stecher drept / clema de taiere | PA, Zinc turnat sub presiune, nichelat | **564945** | **NECU-S-M8G3-HX-Q3** |

**Stecher NECB-S-M12G5-C2**



| Conexiune electrica 1, numar de pini/ fire | Conexiune electrica 1, tehnologie de conectare | Material carcasa | Nr. piesa | Tip |
|---|---|---|---|---|
| 5 | M12x1, codificat A conform EN 61076-2-101 | PA66-GF30 | **8162296** | **NECB-S-M12G5-C2** |