

# Electrical connection technology, for AS-interface

Product range overview

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| AS-interface – Product range overview                                           |                  |        |     |         |         |         |               |
|---------------------------------------------------------------------------------|------------------|--------|-----|---------|---------|---------|---------------|
| Designation                                                                     | Type             | Master | AS1 | CPV-ASI | CPA-ASI | ASI-EVA | → Page        |
| <b>Bus connection</b>                                                           |                  |        |     |         |         |         |               |
| Flat cable for AS-interface components, yellow, 100 m                           | KASI-1,5-Y-100   | ■      | ■   | ■       | ■       | ■       | 4 / 5.1-198   |
| Flat cable for AS-interface components, black, 100 m                            | KASI-1,5-Z-100   | –      | ■   | ■       | ■       | ■       | 4 / 5.1-198   |
| Cable cap for flat cable (scope of delivery 50 pieces) <sup>2)</sup>            | ASI-KK-FK        | –      | ■   | ■       | ■       | ■       | 4 / 5.1-198   |
| Cable sleeve (scope of delivery 20 pieces) <sup>2)</sup>                        | ASI-KT-FK        | –      | ■   | ■       | ■       | ■       | 4 / 5.1-198   |
| Cable socket for flat cable <sup>1)</sup>                                       | ASI-SD-FK        | ■      | –   | ■       | ■       | ■       | 4 / 5.1-189   |
| Cable socket for flat cable, profile turned 180° <sup>1)</sup>                  | ASI-SD-FK180     | –      | –   | ■       | ■       | ■       | 4 / 5.1-189   |
| Flat cable blanking plug <sup>1)</sup>                                          | AS-SD-FK-BL      | –      | –   | ■       | ■       | ■       | 4 / 5.1-189   |
| Addressing cable for addressing device                                          | KASI-ADR         | –      | –   | –       | –       | –       | 4 / 5.1-195   |
| AS-interface cable distributor for flat cables, cables parallel                 | ASI-KVT-FK       | ■      | –   | ■       | ■       | ■       | 4 / 5.1-191   |
| Cable distributor for flat cables, cables symmetrical                           | ASI-KVT-FK-S     | ■      | –   | ■       | ■       | ■       | 4 / 5.1-191   |
| Cable distributors for flat cables, on 2x M12 plug sockets, 4-pin               | ASI-KVT-FKx2-M12 | –      | –   | ■       | ■       | –       | 4 / 5.1-193   |
| Cable socket M12x1 for flat cable                                               | ASI-SD-FK-M12    | ■      | ■   | ■       | ■       | –       | 4 / 5.1-187   |
| Cable socket M12x1 for flat cable, with PG13.5                                  | ASI-SD-PG-M12    | –      | ■   | ■       | ■       | –       | 4 / 5.1-187   |
| <b>Sensor plugs</b>                                                             |                  |        |     |         |         |         |               |
| Sensor plug M12 for inputs and outputs, straight, Pg7, 5-pin                    | SEA-M12-5GS-PG7  | –      | –   | –       | ■       | ■       | 4 / 5.1-166   |
| Sensor plug for inputs and outputs, straight, M12, 4-pin, Pg7                   | SEA-GS-7         | –      | –   | –       | ■       | ■       | 4 / 5.1-162   |
| Sensor plug for inputs and outputs, straight, M12, 4-pin, Pg9                   | SEA-GS-9         | –      | –   | –       | ■       | ■       | 4 / 5.1-162   |
| Sensor plug for inputs and outputs, angled, M12, 4-pin, Pg7                     | SEA-M12-4WD-PG7  | –      | –   | –       | –       | ■       | 2 / 7.2-25    |
| Sensor plug for inputs and outputs, straight, M12, 4-pin, for cable dia. 2.5 mm | SEA-4GS-7-2,5    | –      | –   | –       | ■       | ■       | 4 / 5.1-164   |
| Sensor plug for inputs and outputs, straight, M8, screw-in                      | SEA-3GS-M8-S     | –      | –   | ■       | ■       | –       | 4 / 5.1-160   |
| Sensor plug for inputs and outputs, straight, M8, solderable                    | SEA-GS-M8        | –      | –   | ■       | ■       | –       | 4 / 5.1-160   |
| Sensor plug for inputs and outputs, Harax, 4-pin                                | SEA-GS-HAR-4POL  | –      | –   | –       | ■       | –       | 4 / 5.1-168   |
| Plug, Sub-D, 25-pin                                                             | SD-SUB-D-ST25    | –      | –   | –       | ■       | –       | 4 / 5.1-158   |
| Protective cap M12                                                              | ISK-M12          | –      | –   | –       | ■       | ■       | www.festo.com |
| Protective cap M8                                                               | ISK-M8           | –      | –   | –       | ■       | –       | www.festo.com |
| <b>DUO plug</b>                                                                 |                  |        |     |         |         |         |               |
| DUO plug for inputs and outputs, straight, 4-pin, for 2 cables                  | SEA-GS-11-DUO    | –      | –   | –       | ■       | ■       | 4 / 5.1-162   |
| DUO plug for inputs and outputs, straight, 5-pin, for 2 cables                  | SEA-5GS-11-DUO   | –      | –   | –       | ■       | ■       | 4 / 5.1-162   |
| <b>DUO cable M12 with 2x M8</b>                                                 |                  |        |     |         |         |         |               |
| DUO cable, straight sockets                                                     | KM12-DUO-M8-GDGD | –      | –   | –       | ■       | ■       | 4 / 5.1-154   |
| DUO cable, straight socket/angled socket                                        | KM12-DUO-M8-GDWD | –      | –   | –       | ■       | ■       | 4 / 5.1-154   |
| DUO cable, angled sockets                                                       | KM12-DUO-M8-WDWD | –      | –   | –       | ■       | ■       | 4 / 5.1-154   |

1) Two flat cable connections per ASI-EVA must be connected or covered.

2) Achieves IP65 on open cable end in the field.

# Electrical connection technology, for AS-interface

Product range overview

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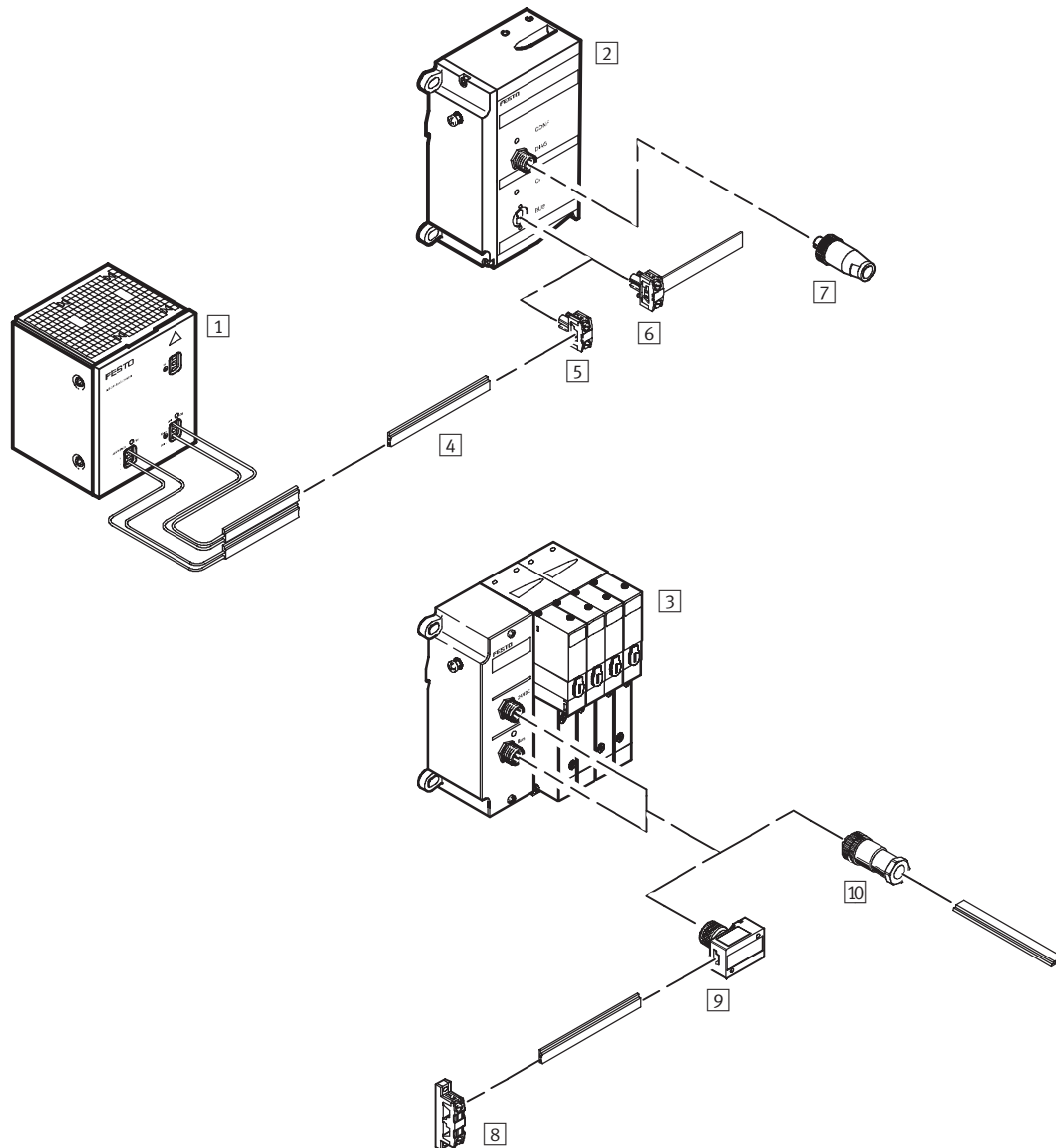
| AS-interface – Product range overview                           |                         |        |     |         |         |         |                          |
|-----------------------------------------------------------------|-------------------------|--------|-----|---------|---------|---------|--------------------------|
| Designation                                                     | Type                    | Master | AS1 | CPV-ASI | CPA-ASI | ASI-EVA | ➔ Page                   |
| Extension cables                                                |                         |        |     |         |         |         |                          |
| Extension cable, straight plug, straight socket, 4-pin, 2.5 m   | KM12-M12-GSGD-2.5       | –      | ■   | –       | ■       | ■       | 4 / 5.1-23               |
| Extension cable, straight plug, straight socket, 4-pin, 5 m     | KM12-M12-GSGD-5         | –      | ■   | –       | ■       | ■       | 4 / 5.1-23               |
| Extension cable, straight plug, angled socket, 4-pin            | KM12-M12-GSWD-1-4       | –      | ■   | –       | ■       | ■       | 4 / 5.1-23               |
| Connecting cables                                               |                         |        |     |         |         |         |                          |
| AS-interface connection for DNCV M12, 8-pin                     | ASI-EVA-3E2A-M12-8POL-Z | ■      | ■   | –       | –       | ■       | Info 220<br>AS-interface |
| Connecting cable M12, 8-pin                                     | KM12-8GD8GS-2-PU        | –      | –   | –       | –       | ■       | LEERER MERKER            |
| Connecting cable, straight plug, M8, straight socket, 4-pin M12 | KM8-M12-GSGD-...        | –      | –   | ■       | ■       | ■       | 4 / 5.1-150              |
| Connecting cable, straight plug, M8, straight socket, 3-pin M8  | KM8-M8-GSGD-...         | –      | –   | ■       | ■       | ■       | 4 / 5.1-150              |
| Other accessories                                               |                         |        |     |         |         |         |                          |
| Combi power pack                                                | ASI-CNT-115/230VAC-B    | ■      | ■   | ■       | ■       | ■       | Info 220<br>AS-interface |
| Addressing device for AS-interface stations                     | ASI-PRG-ADR             | –      | ■   | ■       | ■       | ■       | Info 220<br>AS-interface |
| Addressing cable for addressing device                          | KASI-ADR                | –      | ■   | ■       | ■       | ■       | 4 / 5.1-195              |
| Configuration plug for AS-interface master type 03              | ASI-SS-CONFIG           | ■      | –   | –       | –       | –       | 4 / 5.1-197              |
| Serial data cable for AS-interface software tool                | KDI-SB202-BU9           | ■      | –   | –       | –       | –       | 4 / 5.1-112              |
| Inscription labels 6x10 mm in frames (64 pieces)                | IBS-6x10                | –      | –   | ■       | ■       | ■       | www.festo.com            |
| Inscription labels 10x17 mm in frames (30 pieces)               | IBS-10x17               | –      | –   | –       | –       | –       | www.festo.com            |
| Inscription labels 9x20 mm in frames (20 pieces)                | IBS-9x20                | –      | –   | ■       | ■       | –       | www.festo.com            |
| H-rail mounting (mounting set)                                  | CP-TS-HS35              | –      | –   | –       | –       | ■       | www.festo.com            |
| Attachment for H-rail mounting                                  | CPA-BG-NRH              | –      | –   | –       | ■       | –       | www.festo.com            |
| H-rail to EN 60715                                              | NRH-35-2000             | ■      | ■   | ■       | ■       | ■       | www.festo.com            |
| T-adapter, plug and socket                                      |                         |        |     |         |         |         |                          |
| T-adapter                                                       | FB-TA-M12-5POL          | ■      | –   | –       | ■       | –       | 4 / 5.1-100              |
| Plug for T-adapter                                              | FBS-M12-5GS-PG9         | ■      | –   | –       | ■       | –       | 4 / 5.1-90               |
| Socket, straight, with screw terminal                           | FBSD-GD-9-5POL          | ■      | –   | –       | ■       | –       | 4 / 5.1-90               |

# Electrical connection technology, for AS-interface

Peripherals overview

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## AS-interface components for bus interface and power supply



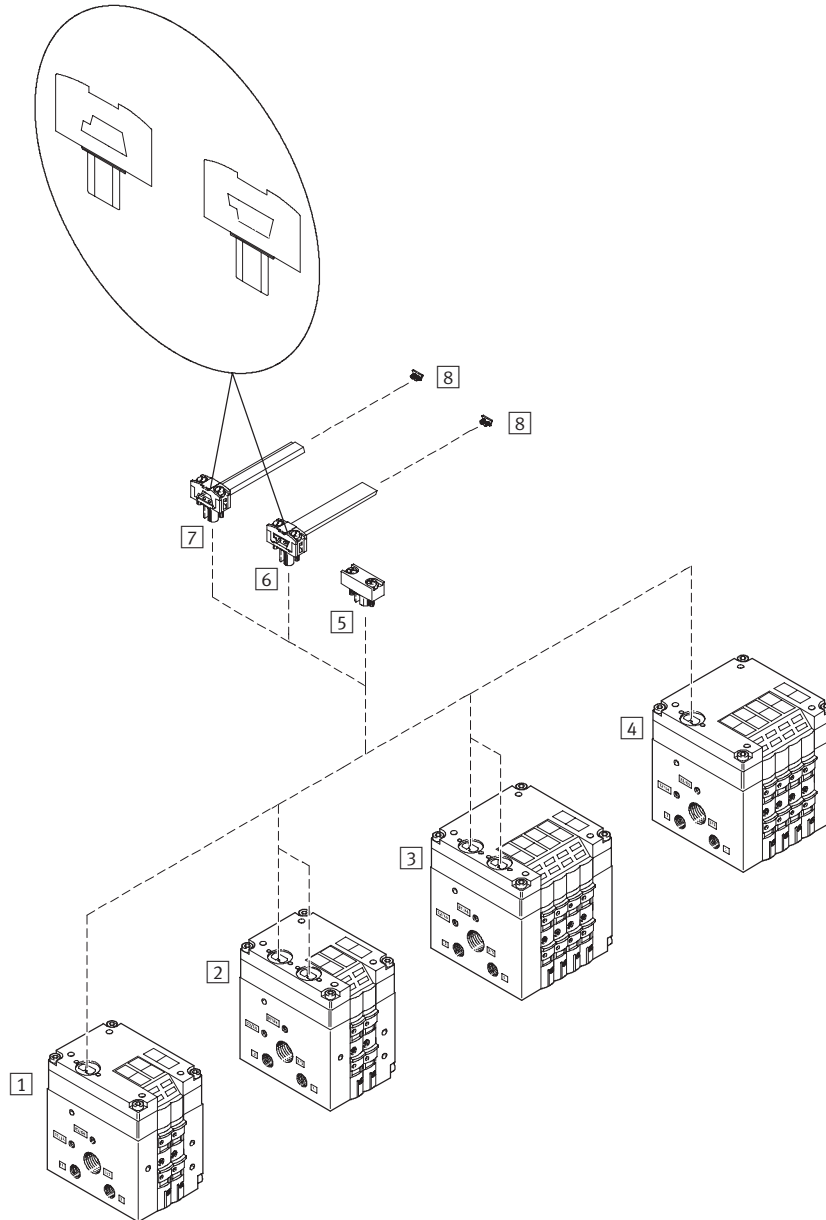
| Accessories |                      |                                                                   |
|-------------|----------------------|-------------------------------------------------------------------|
|             | Brief description    | → Page                                                            |
| 1           | ASI-CNT-115/230VAC-B | Combi power pack<br>Info 220<br>AS-interface                      |
| 2           | VIASI-03-M           | AS-i master interface<br>Info 220<br>AS-interface                 |
| 3           | AS1                  | AS-interface for 4 coils<br>Info 220<br>AS-interface              |
| 4           | KASI-1,5-Y-100       | Flat cable for AS-interface components<br>4 / 5.1-198             |
| 5           | ASI-SD-FK            | Cable socket for flat cable<br>4 / 5.1-189                        |
| 6           | ASI-SD-FK-180        | Cable socket for flat cable, profile turned 180°<br>4 / 5.1-189   |
| 7           | ASI-SS-CONFIG        | Configuration plug for AS-interface master type 03<br>4 / 5.1-197 |
| 8           | ASI-KVT-FK-S         | Cable distributor for flat cables, symmetrical<br>4 / 5.1-191     |
| 9           | ASI-SD-FK-M12        | Cable socket M12x1<br>4 / 5.1-187                                 |
| 10          | ASI-SD-PG-M12        | Cable socket M12x1, Pg13.5<br>4 / 5.1-187                         |

# Electrical connection technology, for AS-interface

Peripherals overview

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## Valve terminal type 10 CPV with AS-interface connection without inputs



| Accessories |                   |                                                                                                  |
|-------------|-------------------|--------------------------------------------------------------------------------------------------|
|             | Brief description | → Page                                                                                           |
| 1           | CPV...            | Valve terminal type 10, Compact Performance with AS-interface connection                         |
| 2           | CPV...            | Valve terminal type 10, Compact Performance with AS-interface connection, auxiliary power supply |
| 3           | CPV...            | Valve terminal type 10, Compact Performance with AS-interface connection, auxiliary power supply |
| 4           | CPV...            | Valve terminal type 10, Compact Performance with AS-interface connection                         |
| 5           | AS-SD-FK-BL       | Flat cable blanking plug                                                                         |
| 6           | ASI-SD-FK-180     | Cable socket for flat cable, profile turned 180°                                                 |
| 7           | ASI-SD-FK         | Cable socket for flat cable                                                                      |
| 8           | ASI-KK-FK         | Cable cap for flat cable                                                                         |

# Electrical connection technology, for AS-interface

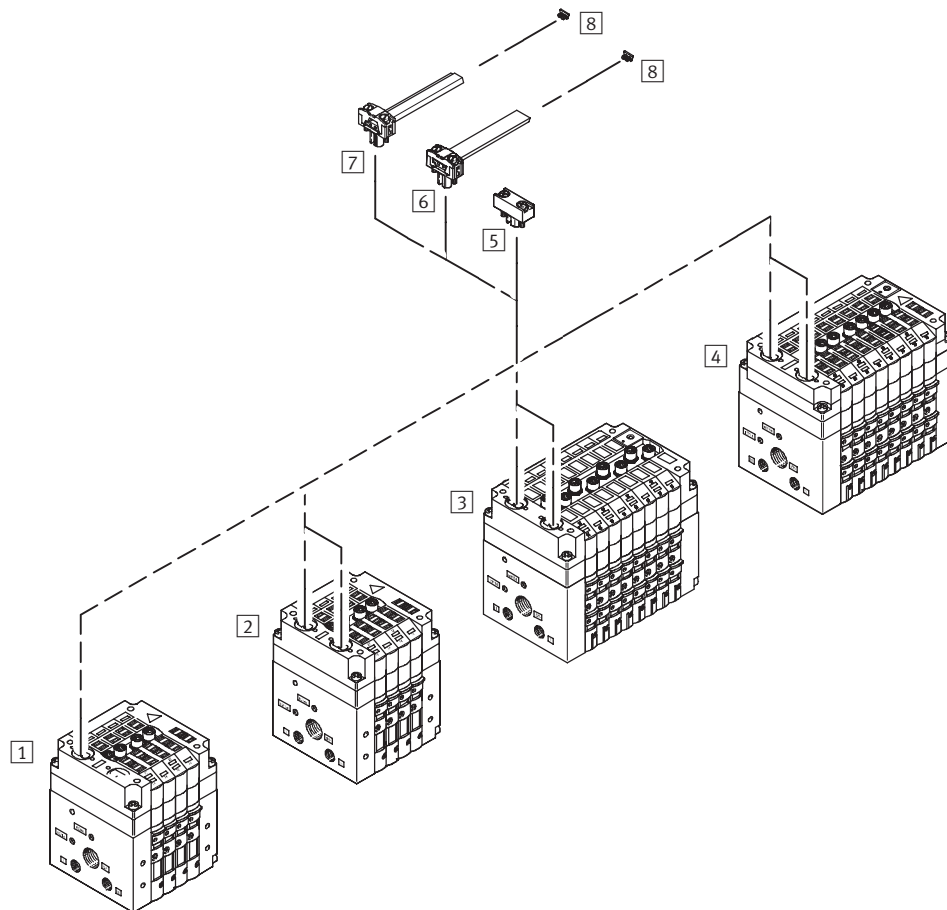
Peripherals overview

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Accessories for valve terminals  
Electrical connector systems

5.1

## Valve terminal type 10 CPV with AS-interface connection with inputs



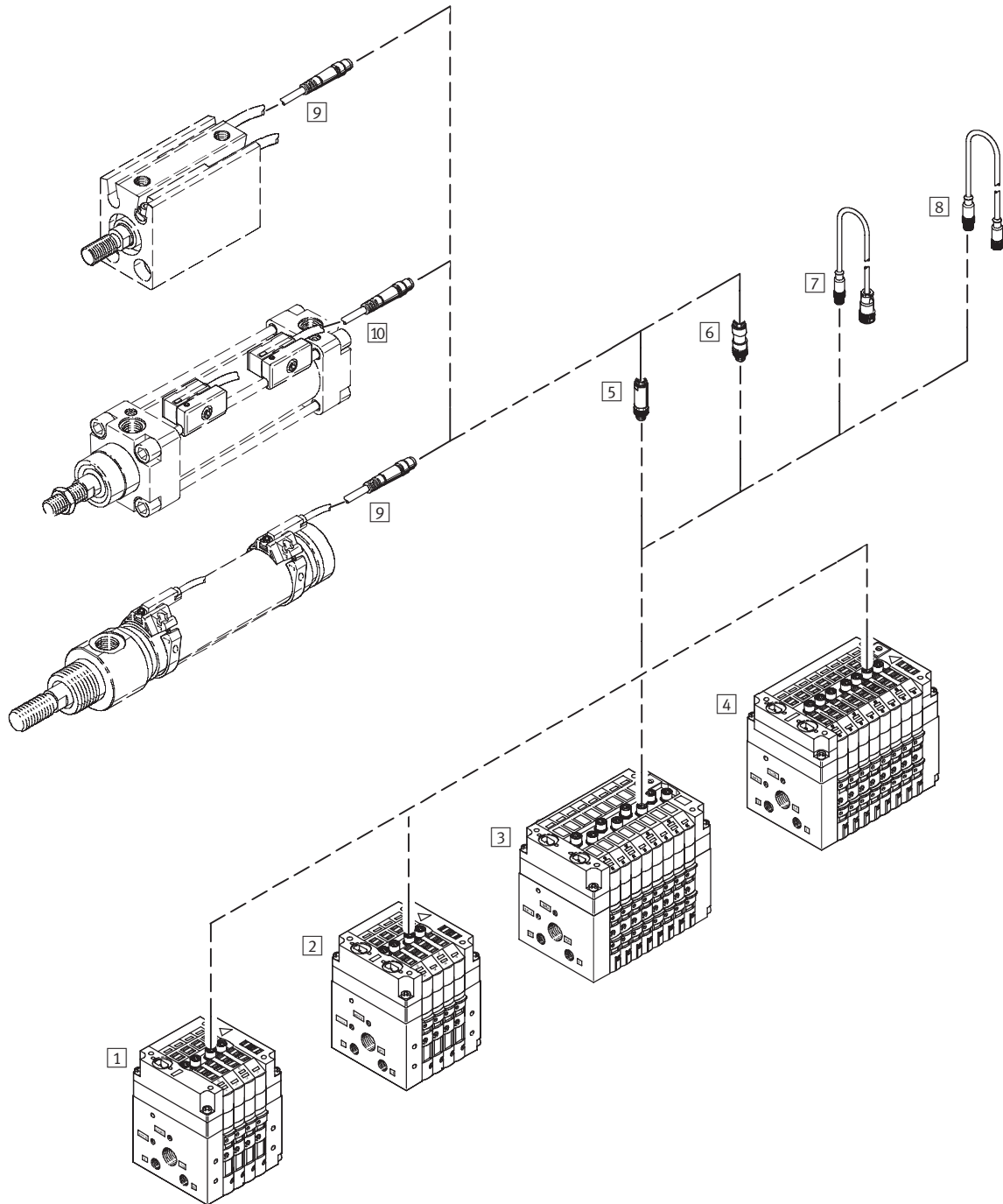
| Accessories |               | Brief description                                                                                           | → Page                   |
|-------------|---------------|-------------------------------------------------------------------------------------------------------------|--------------------------|
| 1           | CPV...        | Valve terminal type 10, Compact Performance with AS-interface connection and inputs                         | Info 220<br>AS-interface |
| 2           | CPV...        | Valve terminal type 10, Compact Performance with AS-interface connection, auxiliary power supply and inputs | Info 220<br>AS-interface |
| 3           | CPV...        | Valve terminal type 10, Compact Performance with AS-interface connection, auxiliary power supply and inputs | Info 220<br>AS-interface |
| 4           | CPV...        | Valve terminal type 10, Compact Performance with AS-interface connection and inputs                         | Info 220<br>AS-interface |
| 5           | AS-SD-FK-BL   | Flat cable blanking plug                                                                                    | 4 / 5.1-189              |
| 6           | ASI-SD-FK-180 | Cable socket for flat cable, profile turned 180°                                                            | 4 / 5.1-189              |
| 7           | ASI-SD-FK     | Cable socket for flat cable                                                                                 | 4 / 5.1-189              |
| 8           | ASI-KK-FK     | Cable cap for flat cable                                                                                    | 4 / 5.1-198              |

# Electrical connection technology, for AS-interface

Peripherals overview

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Valve terminal type 10 CPV with AS-interface connection with inputs, plug and connecting cable variants



Accessories for valve terminals  
Electrical connector systems

5.1

# Electrical connection technology, for AS-interface

Peripherals overview

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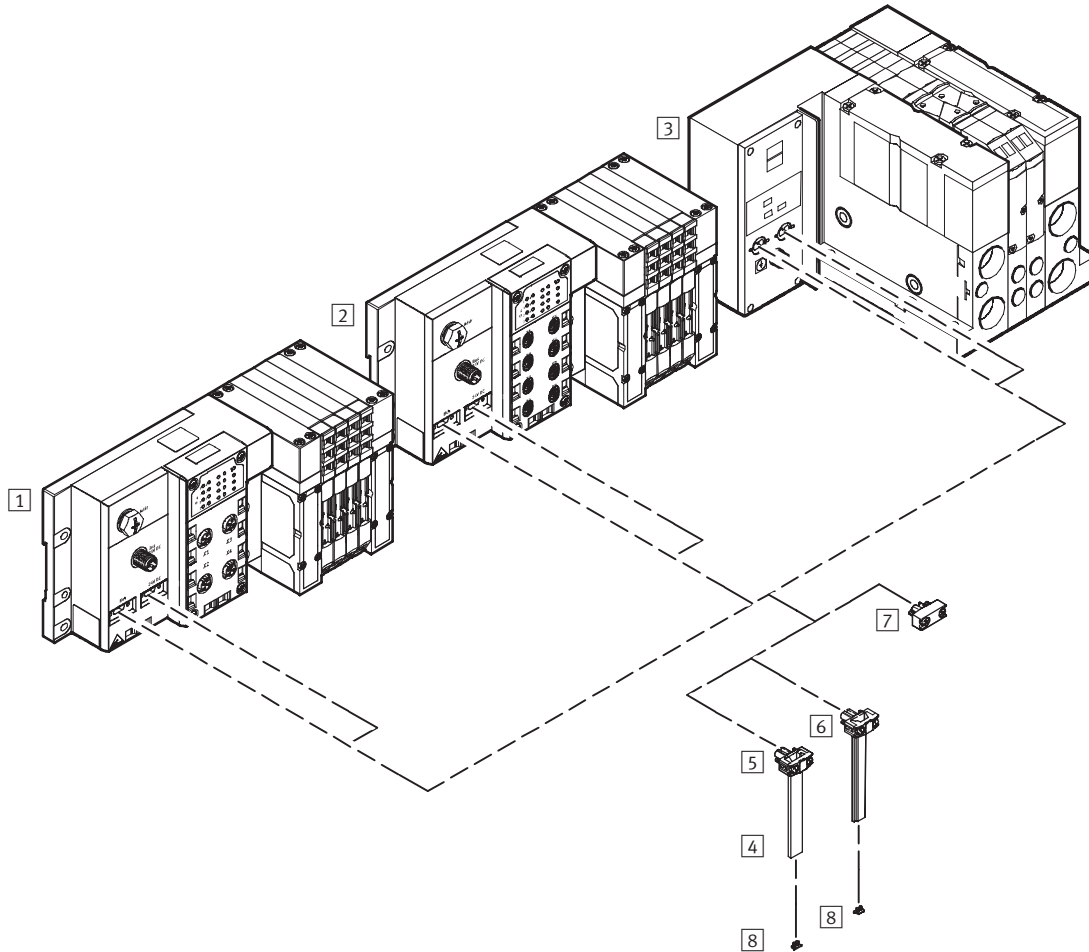
| Accessories        |                                                                                                                                               |                          |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                    | Brief description                                                                                                                             | → Page                   |
| 1 CPV...           | Valve terminal type 10, Compact Performance with AS-interface connection and inputs                                                           | Info 220<br>AS-interface |
| 2 CPV...           | Valve terminal type 10, Compact Performance with AS-interface connection, auxiliary power supply and inputs (alternatively for A/B operation) | Info 220<br>AS-interface |
| 3 CPV...           | Valve terminal type 10, Compact Performance with AS-interface connection, auxiliary power supply and inputs                                   | Info 220<br>AS-interface |
| 4 CPV...           | Valve terminal type 10, Compact Performance with AS-interface connection                                                                      | Info 220<br>AS-interface |
| 5 SEA-3GS-M8-S     | Sensor plug for inputs and outputs, straight, M8, screw-in                                                                                    | 4 / 5.1-160              |
| 6 SEA-GS-M8        | Sensor plug for inputs and outputs, straight, M8, solderable                                                                                  | 4 / 5.1-160              |
| 7 KM8-M12-GSGD-... | Connecting cable, straight plug M8, straight socket, 4-pin M12                                                                                | 4 / 5.1-150              |
| 8 KM8-M8-GSGD-...  | Connecting cable, straight plug M8, straight socket, 3-pin M8                                                                                 | 4 / 5.1-150              |
| 9 SMEO-...         | Proximity sensor, electrical                                                                                                                  | www.festo.com            |
| 10 SMT-10          | Proximity sensor, electrical                                                                                                                  | www.festo.com            |

# Electrical connection technology, for AS-interface

Peripherals overview

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## Valve terminal type 12 CPA with bus interface and power supply



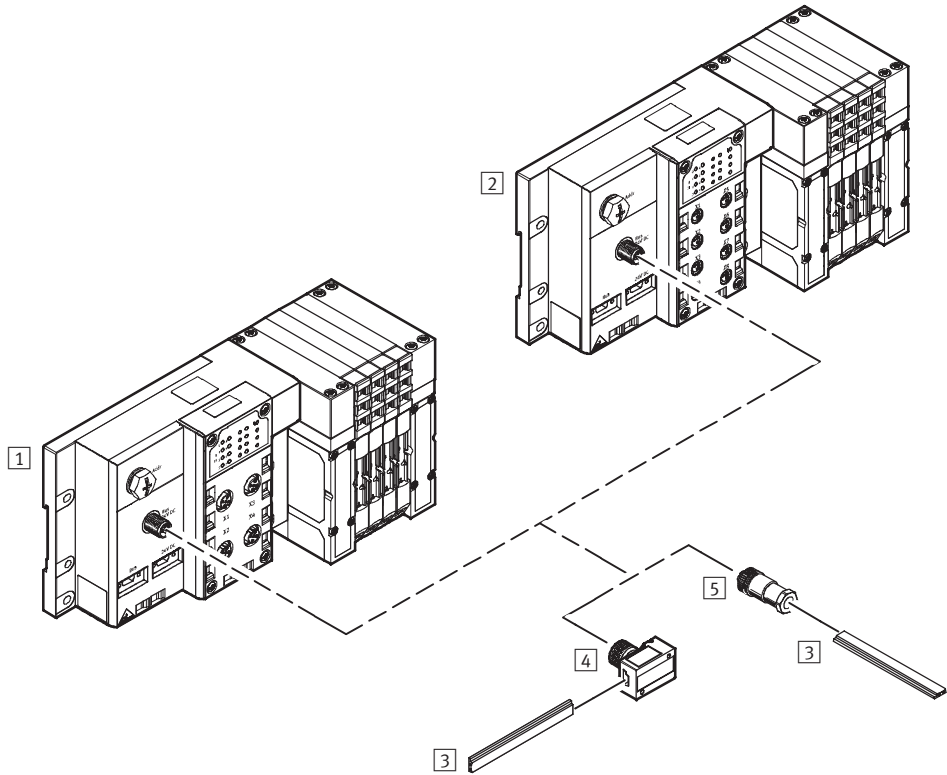
| Accessories      |                                                                                                                 |                          |
|------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------|
|                  | Brief description                                                                                               | → Page                   |
| 1 CPA...         | Valve terminal type 12, Compact Performance with AS-interface connection and inputs                             | Info 220<br>AS-interface |
| 2 CPA...         | Valve terminal type 12, Compact Performance with AS-interface connection, auxiliary power supply without inputs | Info 220<br>AS-interface |
| 3 CPA...         | Valve terminal type 12, Compact Performance with AS-interface connection, auxiliary power supply and inputs     | Info 220<br>AS-interface |
| 4 KASI-1,5-Y-100 | Flat cable for AS-interface components                                                                          | 4 / 5.1-198              |
| 5 ASI-SD-FK-180  | Cable socket for flat cable, profile turned 180°                                                                | 4 / 5.1-189              |
| 6 ASI-SD-FK      | Cable socket for flat cable                                                                                     | 4 / 5.1-189              |
| 7 AS-SD-FK-BL    | Flat cable blanking plug                                                                                        | 4 / 5.1-189              |
| 8 ASI-KK-FK      | Cable cap for flat cable                                                                                        | 4 / 5.1-198              |

# Electrical connection technology, for AS-interface

Peripherals overview



Valve terminal type 12 CPA with bus interface, power supply, diagnostics and addressing interface



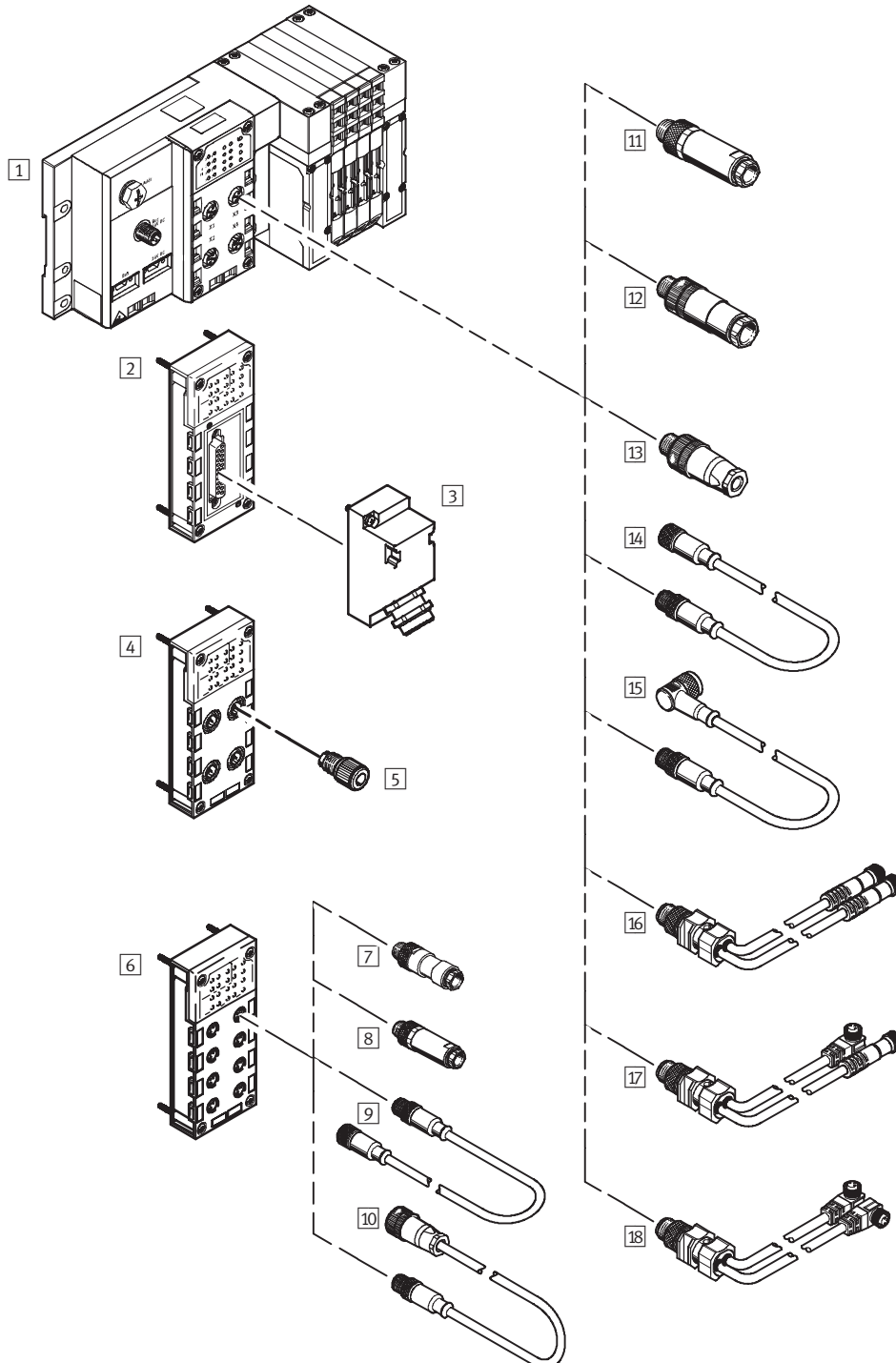
| Accessories |                   |                                                                                     |
|-------------|-------------------|-------------------------------------------------------------------------------------|
|             | Brief description | → Page                                                                              |
| 1           | CPA...            | Valve terminal type 12, Compact Performance with AS-interface connection and inputs |
| 2           | CPA...            | Valve terminal type 12, Compact Performance with AS-interface connection and inputs |
| 3           | KASI-1,5-Y-100    | Flat cable for AS-interface components                                              |
| 4           | ASI-SD-PG-M12     | Cable socket M12x1, Pg13.5                                                          |
| 5           | ASI-SD-FK-M12     | Cable socket M12x1                                                                  |

# Electrical connection technology, for AS-interface

Peripherals overview

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Valve terminal type 12 CPA with connection options including plugs, sockets and cables



# Electrical connection technology, for AS-interface

Peripherals overview

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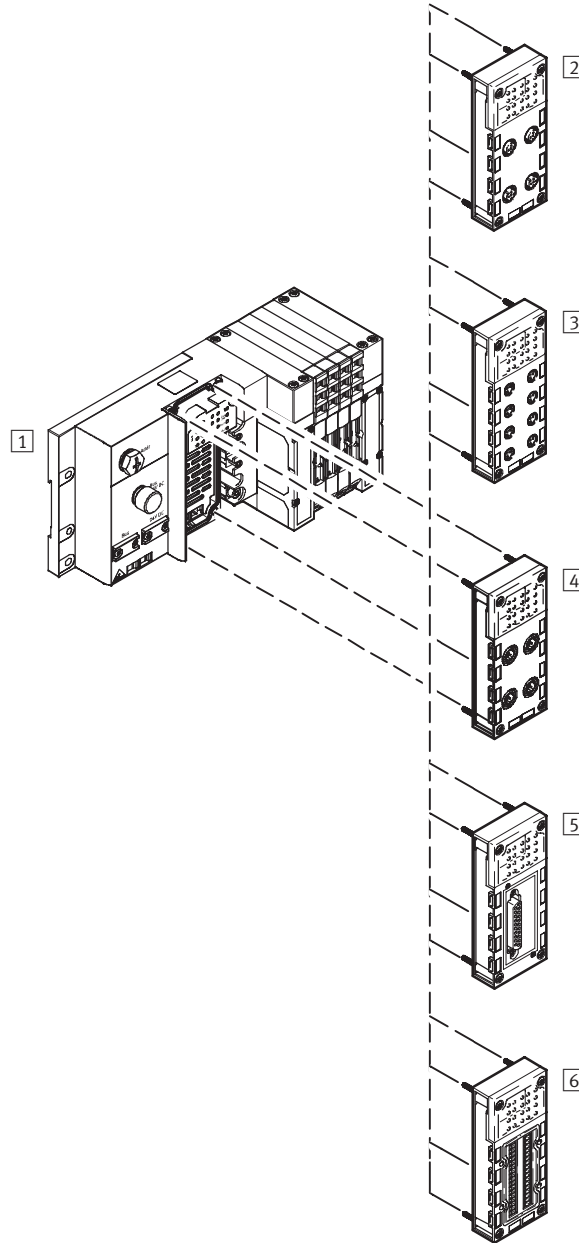
| Accessories             |                                                                |                                                   |
|-------------------------|----------------------------------------------------------------|---------------------------------------------------|
|                         | Brief description                                              | → Page                                            |
| 1 CPA...                | Valve terminal type 12 CPA...-ASI with 8 inputs M12            | Info 220<br>AS-interface                          |
| 2 CPX-AB-1-SUB-BU-25POL | Connection block, CPX terminal, clamps, IP20                   | Info 210<br>Modular<br>electrical<br>terminal CPX |
| 3 SD-SUB-D-ST25         | Plug, Sub-D, 25-pin                                            | 4 / 5.1-158                                       |
| 4 CPX-AB-4-HAR-4POL     | Connection block, CPX terminal, Harax                          | Info 210<br>Modular<br>electrical<br>terminal CPX |
| 5 SEA-GS-HAR-4POL       | Sensor plug for inputs and outputs, Harax, 4-pin               | 4 / 5.1-168                                       |
| 6 CPX-AB-8-M8-3POL      | Connection block, CPX terminal                                 | Info 210<br>Modular<br>electrical<br>terminal CPX |
| 7 SEA-GS-M8             | Sensor plug for inputs and outputs, straight, M8, solderable   | 4 / 5.1-160                                       |
| 8 SEA-3GS-M8-S          | Sensor plug for inputs and outputs, straight, M8, screw-in     | 4 / 5.1-160                                       |
| 9 KM8-M8-GSGD-...       | Connecting cable, straight plug M8, straight socket, 3-pin M8  | 4 / 5.1-150                                       |
| 10 KM8-M12-GSGD-...     | Connecting cable, straight plug M8, straight socket, 4-pin M12 | 4 / 5.1-150                                       |
| 11 SEA-GS-7             | Sensor plug for inputs and outputs, straight, 4-pin            | 4 / 5.1-162                                       |
| SEA-4GS-7-2,5           | Sensor plug for inputs and outputs, straight, 4-pin            | 4 / 5.1-164                                       |
| SEA-GS-9                | Sensor plug for inputs and outputs, straight, 4-pin            | 4 / 5.1-162                                       |
| 12 SEA-GS-11-DUO        | DUO plug for inputs and outputs, straight, 4-pin, for 2 cables | 4 / 5.1-162                                       |
| SEA-5GS-11-DUO          | DUO plug for inputs and outputs, straight, 5-pin, for 2 cables | 4 / 5.1-164                                       |
| 13 SEA-M12-5GS-PG7      | Sensor plug M12 for inputs and outputs, straight, Pg7, 5-pin   | 4 / 5.1-166                                       |
| 14 KM12-M12-GSGD-...    | Extension cable, straight plug, straight socket, 4-pin         | 4 / 5.1-23                                        |
| 15 KM12-M12-GSWD-1-4    | Extension cable, straight plug, angled socket, 4-pin           | 4 / 5.1-23                                        |
| 16 KM12-DUO-M8-GDGD     | DUO cable, straight sockets                                    | 4 / 5.1-154                                       |
| 17 KM12-DUO-M8-GDWD     | DUO cable, straight socket/angled socket                       | 4 / 5.1-154                                       |
| 18 KM12-DUO-M8-WDWD     | DUO cable, angled sockets                                      | 4 / 5.1-154                                       |

# Electrical connection technology, for AS-interface

Peripherals overview

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## Valve terminal type 12 CPA with connection options for electrical inputs



| Accessories             |                                                                                     |                          |
|-------------------------|-------------------------------------------------------------------------------------|--------------------------|
|                         | Brief description                                                                   | → Page                   |
| 1 CPA...                | Valve terminal type 12, Compact Performance with AS-interface connection and inputs | Info 220<br>AS-interface |
| 2 CPX-AB-4-M12x2-5POL   | Connection block, CPX terminal, M12, 5-pin                                          | Info 210<br>CPX terminal |
| 3 CPX-AB-8-M8x2-3POL    | Connection block, CPX terminal, M8, 3-pin                                           | Info 210<br>CPX terminal |
| 4 CPX-AB-4-HAR-POL      | Connection block, CPX terminal, Harax                                               | Info 210<br>CPX terminal |
| 5 CPX-AB-4-8-...        | Connection block, CPX terminal, Sub-D, 25 pin, IP65                                 | Info 210<br>CPX terminal |
| 6 CPX-AB-1-SUB-BU-25POL | Connection block CPX terminal, clamps, IP20                                         | Info 210<br>CPX terminal |

# Electrical connection technology, for AS-interface

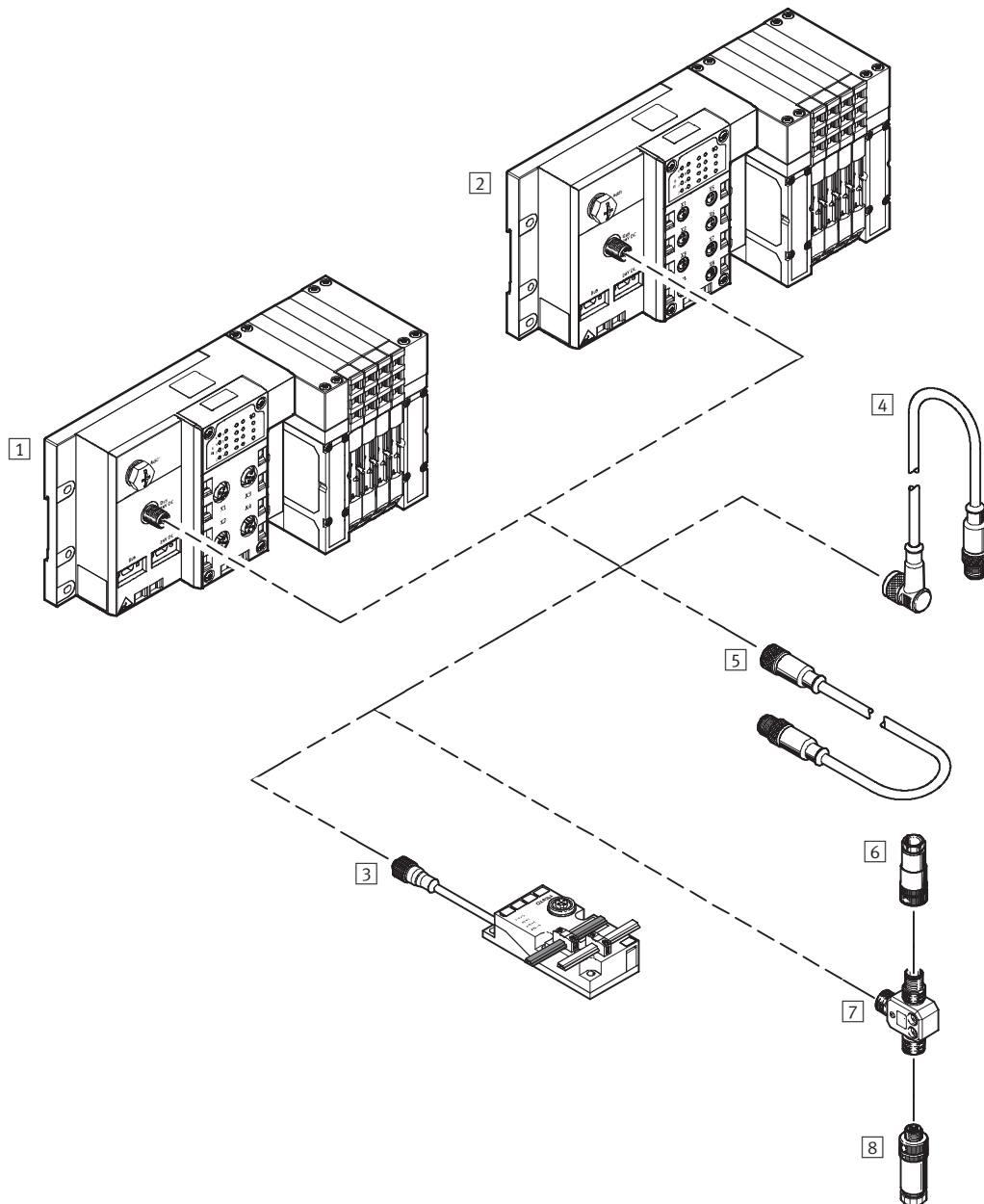
Peripherals overview

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Accessories for valve terminals  
Electrical connector systems

5.1

## Valve terminal type 12 CPA with AS-interface distributors



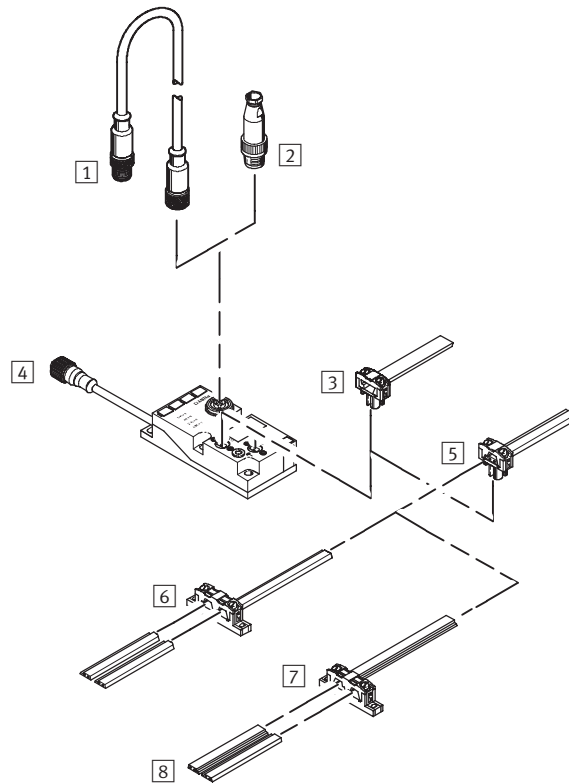
| Accessories |                   |                                                                                                                |
|-------------|-------------------|----------------------------------------------------------------------------------------------------------------|
|             | Brief description | → Page                                                                                                         |
| 1           | CPA...            | Valve terminal type 12, Compact Performance with AS-interface connection and inputs and auxiliary power supply |
| 2           | CPA...            | Valve terminal type 12, Compact Performance with AS-interface connection and inputs and auxiliary power supply |
| 3           | ASI-KVT-FKx2-M12  | Cable distributor for flat cables, plug socket M12                                                             |
| 4           | KM12-M12-GSWD-1-4 | Extension cable, straight plug, angled socket, 4-pin                                                           |
| 5           | KM12-M12-GSGD-... | Extension cable, straight plug, straight socket, 4-pin                                                         |
| 6           | FBS-M12-5GS-PG9   | Plug for T-adaptor                                                                                             |
| 7           | FB-TA-M12-5POL    | T-adaptor                                                                                                      |
| 8           | FBSD-GD-9-5POL    | Socket, straight, with screw terminal                                                                          |

# Electrical connection technology, for AS-interface

Peripherals overview

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## AS-interface components and distributors



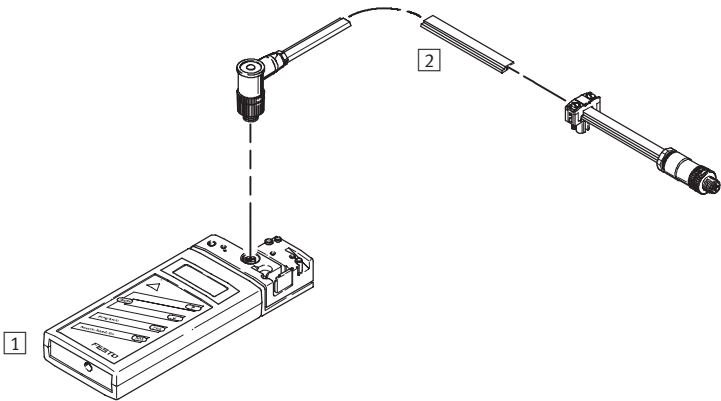
| Accessories |                   | Brief description                                            | → Page      |
|-------------|-------------------|--------------------------------------------------------------|-------------|
| 1           | KM12-M12-GSGD-... | Extension cable, straight plug, straight socket, 4-pin       | 4 / 5.1-23  |
| 2           | SEA-M12-5GS-PG7   | Sensor plug M12 for inputs and outputs, straight, Pg7, 5-pin | 4 / 5.1-166 |
| 3           | ASI-SD-FK-180     | Cable socket for flat cable, profile turned 180°             | 4 / 5.1-189 |
| 4           | ASI-KVT-FKx2-M12  | Cable distributor for flat cables, plug socket M12           | 4 / 5.1-193 |
| 5           | ASI-SD-FK         | Cable socket for flat cable                                  | 4 / 5.1-189 |
| 6           | ASI-KVT-FK        | Cable distributor for flat cables, parallel                  | 4 / 5.1-191 |
| 7           | ASI-KVT-FK-S      | Cable distributor for flat cables, symmetrical               | 4 / 5.1-191 |
| 8           | KASI-1,5-Y-100    | Flat cable for AS-interface components                       | 4 / 5.1-198 |

# Electrical connection technology, for AS-interface

Peripherals overview



## AS-interface components with accessories



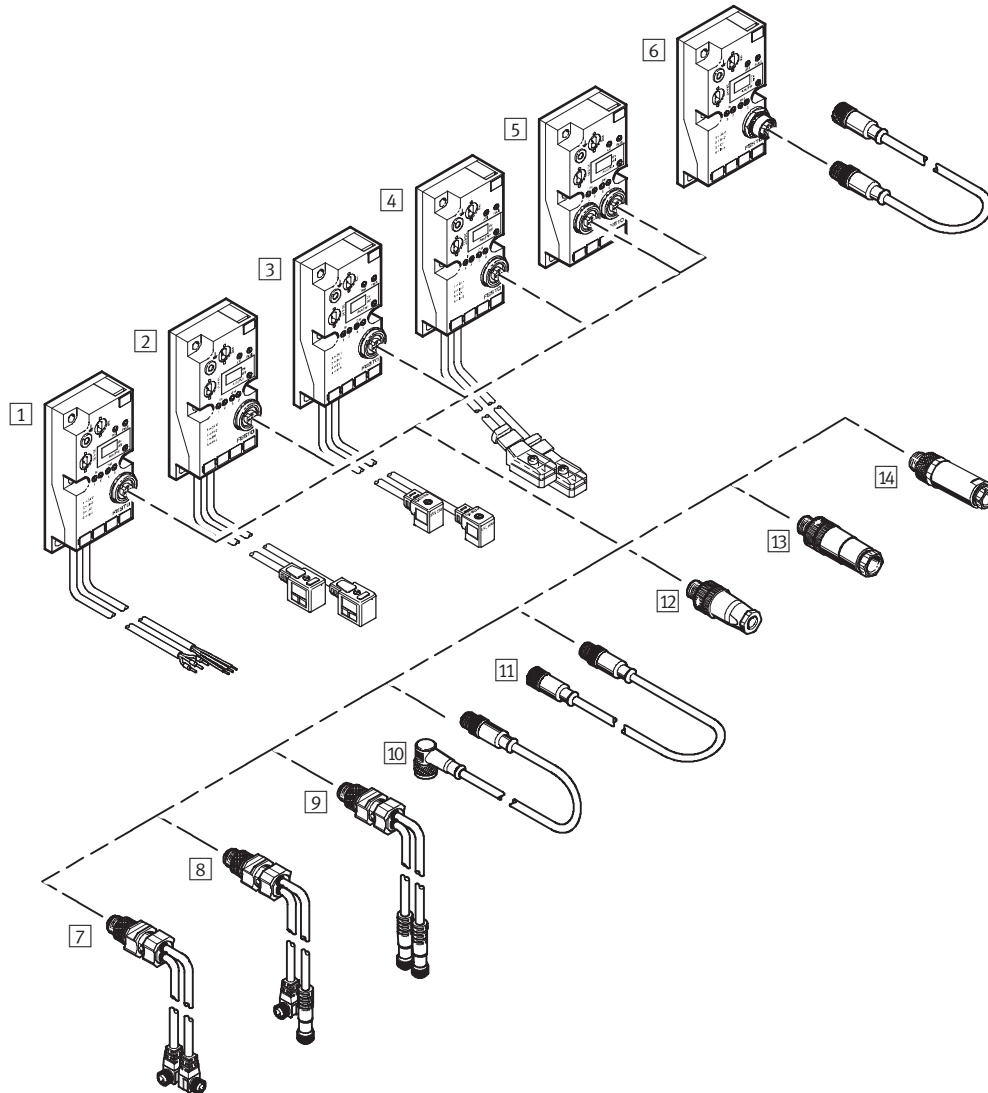
| Accessories |                                                            |                          |
|-------------|------------------------------------------------------------|--------------------------|
|             | Brief description                                          | → Page                   |
| 1           | ASI-PRG-ADR<br>Addressing device for AS-interface stations | Info 220<br>AS-interface |
| 2           | KASI-ADR<br>Addressing cable for addressing device         | 4 / 5.1-195              |

# Electrical connection technology, for AS-interface

Peripherals overview

FESTO

AS-interface components, ASI-EVA individual valve interface, bus interface, power supply, plug and cable variants



# Electrical connection technology, for AS-interface

Peripherals overview

**FESTO**

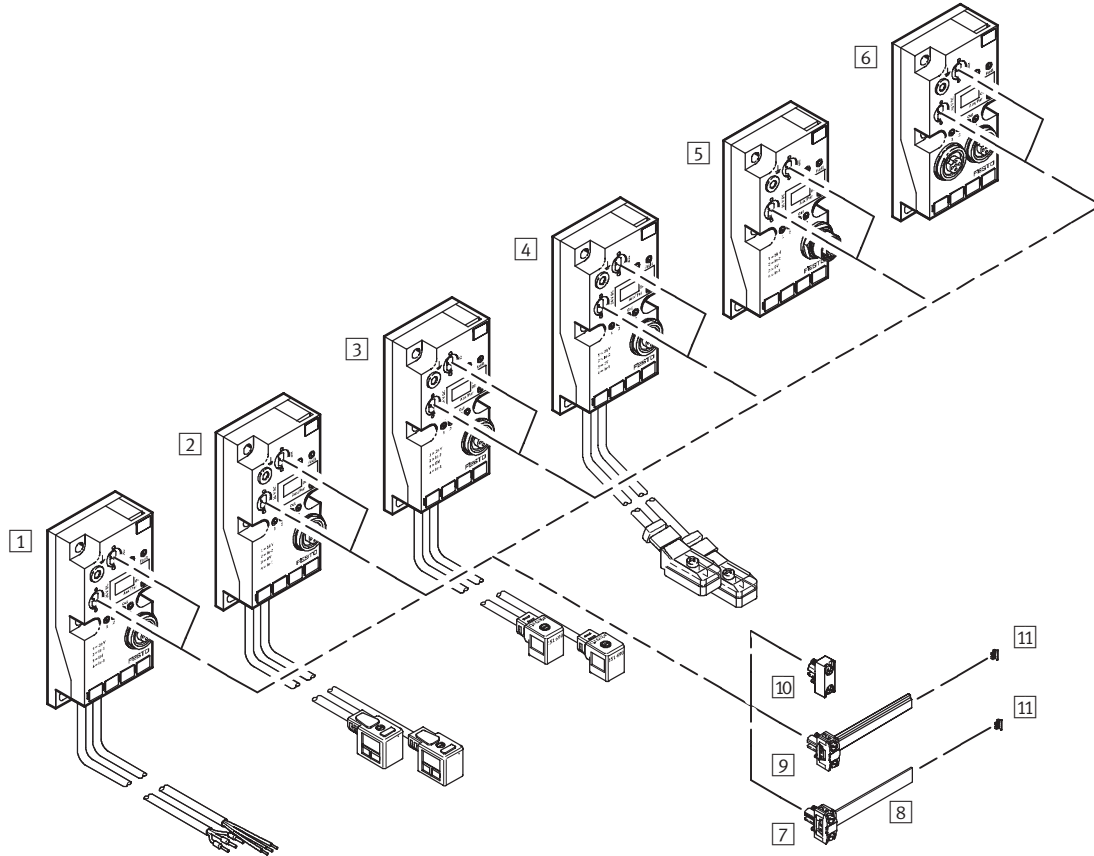
| Accessories               |                                                                         |                          |
|---------------------------|-------------------------------------------------------------------------|--------------------------|
|                           | Brief description                                                       | → Page                   |
| 1 ASI-EVA-K1-...          | AS-interface individual valve interface for any valves up to 6 W (12 W) | Info 220<br>AS-interface |
| 2 ASI-EVA-MF-...          | AS-interface individual valve interface for F solenoid                  | Info 220<br>AS-interface |
| 3 ASI-EVA-MEB-...         | AS-interface individual valve interface for EB solenoid                 | Info 220<br>AS-interface |
| 4 ASI-EVA-MZB-...         | AS-interface individual valve interface for valves CPE10/14-M1BH        | Info 220<br>AS-interface |
| 5 ASI-EVA-4E-M12-5POL     | AS-interface for 4 inputs                                               | Info 220<br>AS-interface |
| 6 ASI-EVA-3E2A-M12-8POL-Z | AS-interface connection for DNCV                                        | Info 220<br>AS-interface |
| 7 KM12-DUO-M8-WDWD        | DUO cable, angled sockets                                               | 4 / 5.1-154              |
| 8 KM12-DUO-M8-GDWD        | DUO cable, straight socket/angled socket                                | 4 / 5.1-154              |
| 9 KM12-DUO-M8-GDGD        | DUO cable, straight sockets                                             | 4 / 5.1-154              |
| 10 KM12-M12-GSWD-1-4      | Extension cable, straight plug, angled socket, 4-pin                    | 4 / 5.1-23               |
| 11 KM12-M12-GSGD-...      | Extension cable, straight plug, straight socket, 4-pin                  | 4 / 5.1-23               |
| 12 SEA-M12-5GS-PG7        | Sensor plug M12 for inputs and outputs, straight, Pg7, 5-pin            | 4 / 5.1-166              |
| 13 SEA-GS-11-DUO          | DUO plug for inputs and outputs, straight, 4-pin, for 2 cables          | 4 / 5.1-162              |
| SEA-5GS-11-DUO            | DUO plug for inputs and outputs, straight, 5-pin, for 2 cables          | 4 / 5.1-164              |
| 14 SEA-GS-7               | Sensor plug for inputs and outputs, straight                            | 4 / 5.1-162              |
| SEA-4GS-7-2,5             |                                                                         | 4 / 5.1-164              |
| SEA-GS-9                  |                                                                         | 4 / 5.1-162              |

# Electrical connection technology, for AS-interface

Peripherals overview

FESTO

AS-interface components, ASI-EVA individual valve interface, bus interface, power supply



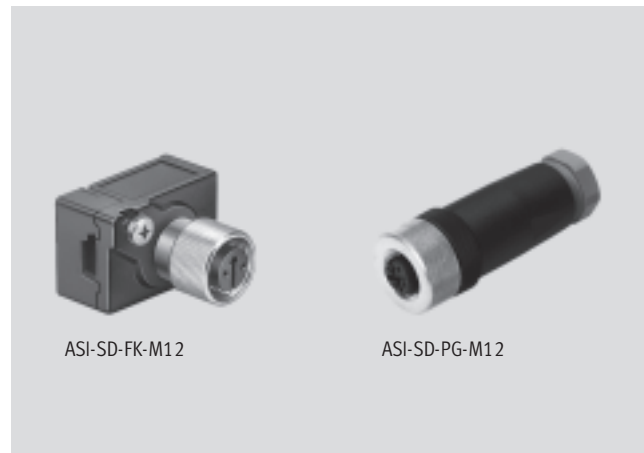
| Accessories |                         |                                                                                              |
|-------------|-------------------------|----------------------------------------------------------------------------------------------|
|             | Brief description       | → Page                                                                                       |
| 1           | ASI-EVA-K1-...          | AS-interface individual valve interface for any valves up to 6 W<br>Info 220<br>AS-interface |
| 2           | ASI-EVA-MF-...          | AS-interface individual valve interface for F solenoid<br>Info 220<br>AS-interface           |
| 3           | ASI-EVA-MEB-...         | AS-interface individual valve interface for EB solenoid<br>Info 220<br>AS-interface          |
| 4           | ASI-EVA-MZB-...         | AS-interface individual valve interface for valves CPE10/14-M1BH<br>Info 220<br>AS-interface |
| 5           | ASI-EVA-3E2A-M12-8POL-Z | AS-interface connection for DNCV<br>Info 220<br>AS-interface                                 |
| 6           | ASI-EVA-4E-M12-5POL     | AS-interface for 4 inputs<br>Info 220<br>AS-interface                                        |
| 7           | ASI-SD-FK-180           | Cable socket for flat cable, profile turned 180°<br>4 / 5.1-189                              |
| 8           | KASI-1,5-Y-100          | Flat cable for AS-interface components<br>4 / 5.1-198                                        |
| 9           | ASI-SD-FK               | Cable socket for flat cable<br>4 / 5.1-189                                                   |
| 10          | ASI-SD-FK-BL            | Blanking plug<br>4 / 5.1-189                                                                 |
| 11          | ASI-KK-FK               | Cable cap for flat cable<br>4 / 5.1-198                                                      |

## Electrical connection technology, for AS-interface

Technical data – ASI-SD

**FESTO**

- Flat cable socket for the connection of AS-interface stations to the AS-interface bus system
- M12 connection
- Reverse polarity protected
- Detachable connection
- 2-pin or 4-pin



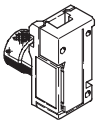
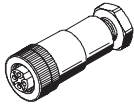
ASI-SD-FK-M12

ASI-SD-PG-M12

Accessories for valve terminals  
Electrical connector systems

**5.1**

| General technical data                      |                                    |                |
|---------------------------------------------|------------------------------------|----------------|
| Type                                        | ASI-SD-FK-M12                      | ASI-SD-PG-M12  |
| Mounting position                           | Any                                |                |
| Connection type                             | Insulation displacement technology | Screw terminal |
| Connection cross-section [mm <sup>2</sup> ] | 1.5                                | 0.75           |
| Cable gland fitting                         | –                                  | Pg9            |
| Protection class                            | IP67                               |                |
| Material of housing                         | Polyamide                          |                |
| Material of contacts                        | Gold-plated copper base alloy      | Bronze         |
| Material of union nut                       | Nickel-plated surface              |                |
| Operating temperature [°C]                  | –25 ... +60                        | –40 ... +85    |

| Ordering data                                                                       |                                      |                  |                             |                               |                    |               |          |
|-------------------------------------------------------------------------------------|--------------------------------------|------------------|-----------------------------|-------------------------------|--------------------|---------------|----------|
|                                                                                     | Electrical connection                | Type of mounting | Operating voltage range [V] | Current-carrying capacity [A] | Product weight [g] | Type          | Part No. |
|  | Straight plug, 2-pin                 | Knurled screw    | 40 AC                       | 2                             | 16.8               | ASI-SD-FK-M12 | 18 788   |
|  | Straight plug, 4-pin, screw terminal |                  | 125 AC                      | 3                             | 27.6               | ASI-SD-PG-M12 | 18 789   |

# Electrical connection technology, for AS-interface

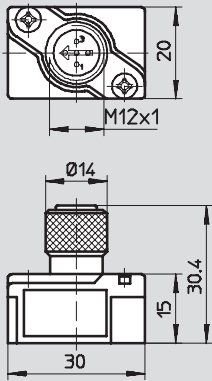
Technical data – ASI-SD

FESTO

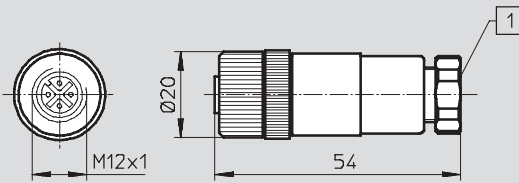
## Dimensions

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

ASI-SD-FK-M12



ASI-SD-PG-M12



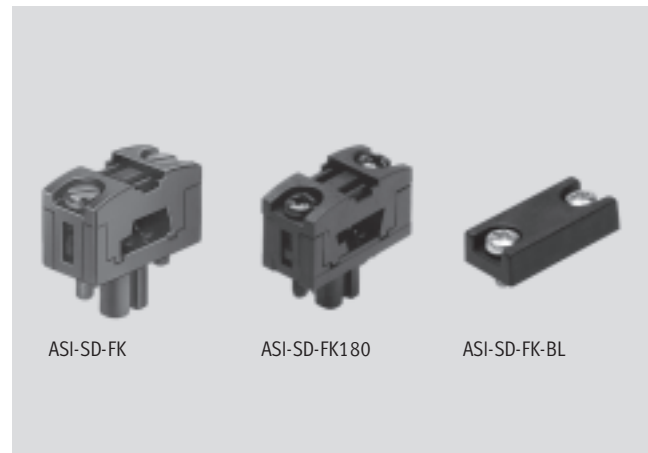
1 Seal for AS-interface cable

# Electrical connection technology, for AS-interface

Technical data – ASI-SD-FK

**FESTO**

- Flat cable socket for the connection of AS-interface stations to the AS-interface bus system
- 0° and 180° version
- Reverse polarity protected
- Detachable connection
- 2-pin
- Blanking plugs for sealing unused connections



Accessories for valve terminals  
Electrical connector systems

**5.1**

| General technical data                      |                                    |                  |              |
|---------------------------------------------|------------------------------------|------------------|--------------|
| Type                                        | ASI-SD-FK                          | ASI-SD-FK180     | ASI-SD-FK-BL |
| Mounting position                           | Any                                |                  |              |
| Version                                     | Cable guide 0°                     | Cable guide 180° | –            |
| Connection type                             | Insulation displacement technology |                  |              |
| Connection cross-section [mm <sup>2</sup> ] | 1.5                                |                  |              |
| Protection class                            | IP65                               |                  |              |
| Material of housing                         | Polyamide                          |                  |              |
| Material of contacts                        | Bronze                             |                  |              |
| Ambient temperature [°C]                    | –5 ... +50                         |                  |              |
| Storage temperature [°C]                    | –30 ... +85                        |                  |              |

| Ordering data |                         |                  |                         |       |                               |                    |              |          |
|---------------|-------------------------|------------------|-------------------------|-------|-------------------------------|--------------------|--------------|----------|
|               | Electrical connection   | Type of mounting | Operating voltage range |       | Current-carrying capacity [A] | Product weight [g] | Type         | Part No. |
|               |                         |                  | [V]                     | [V]   |                               |                    |              |          |
|               | Socket, straight, 2-pin | 2 screws M2.5    | 60 AC                   | 75 DC | 3                             | 6.8                | ASI-SD-FK    | 18 785   |
|               |                         |                  | –                       | –     | –                             | 6.2                | ASI-SD-FK180 | 196 089  |
|               | –                       | 2 screws M2.5x6  | –                       | –     | –                             | 3                  | ASI-SD-FK-BL | 196 090  |

# Electrical connection technology, for AS-interface

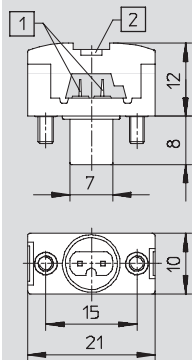
Technical data – ASI-SD-FK

**FESTO**

## Dimensions

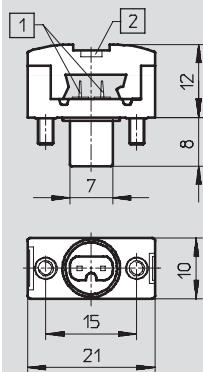
Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

### ASI-SD-FK



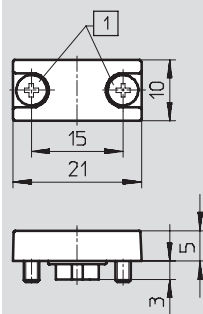
- [1] Contact blades for flat cable contacting
- [2] Inscription label mounting options

### ASI-SD-FK180



- [1] Contact blades for flat cable contacting
- [2] Inscription label mounting options

### ASI-SD-FK-BL



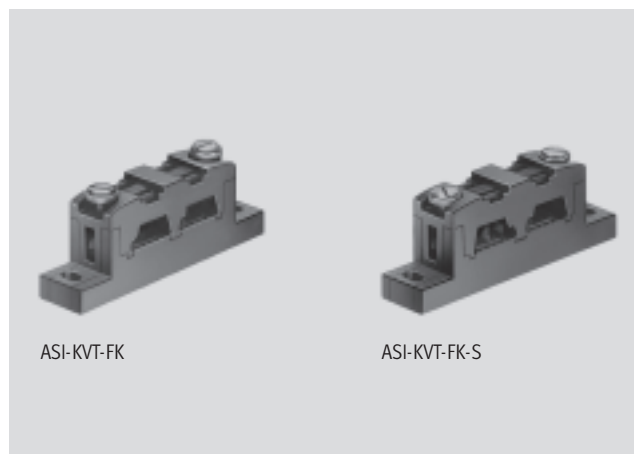
- [1] Mounting screws M2.5x6

## Electrical connection technology, for AS-interface

Technical data – ASI-KVT

**FESTO**

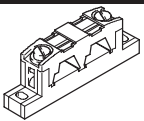
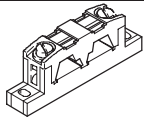
- Flat cable distributor for branching the AS-interface network at any desired point
- For parallel or symmetrical cable installation
- Reverse polarity protected



ASI-KVT-FK

ASI-KVT-FK-S

| General technical data                      |                                    |                         |
|---------------------------------------------|------------------------------------|-------------------------|
| Type                                        | ASI-KVT-FK                         | ASI-KVT-FK-S            |
| Mounting position                           | Any                                |                         |
| Version                                     | Cable guide parallel               | Cable guide symmetrical |
| Connection type                             | Insulation displacement technology |                         |
| Connection cross-section [mm <sup>2</sup> ] | 1.5                                |                         |
| Protection class                            | IP65                               |                         |
| Material of housing                         | Polyamide                          |                         |
| Material of contacts                        | Bronze                             |                         |
| Ambient temperature [°C]                    | −5 ... +50                         |                         |
| Storage temperature [°C]                    | −30 ... +85                        |                         |

| Ordering data                                                                       |                  |                         |       |                           |                |              |          |
|-------------------------------------------------------------------------------------|------------------|-------------------------|-------|---------------------------|----------------|--------------|----------|
|                                                                                     | Type of mounting | Operating voltage range |       | Current-carrying capacity | Product weight | Type         | Part No. |
|                                                                                     |                  | [V]                     | [V]   | [A]                       | [g]            |              |          |
|  | 2 screws M2.5    | 60 AC                   | 75 DC | 3                         | 7.2            | ASI-KVT-FK   | 18 786   |
|  |                  |                         |       |                           |                | ASI-KVT-FK-S | 18 797   |

# Electrical connection technology, for AS-interface

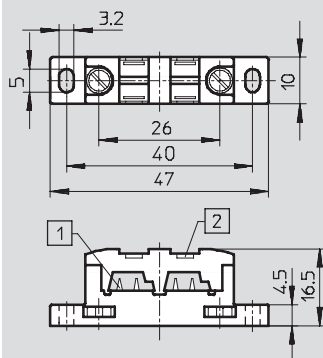
Technical data – ASI-KVT

**FESTO**

## Dimensions

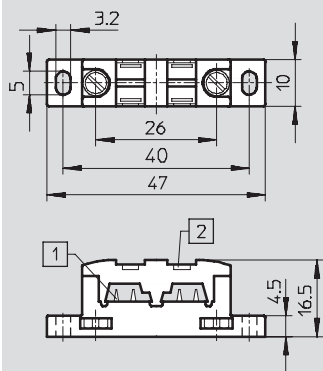
Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

### ASI-KVT-FK



- 1 Contact blades for flat cable contacting
- 2 Inscription label mounting options

### ASI-KVT-FK-S



- 1 Contact blades for flat cable contacting
- 2 Inscription label mounting options

## Electrical connection technology, for AS-interface

Technical data – ASI-KVT-FKx2

**FESTO**

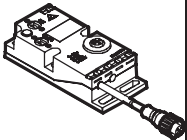
- Flat cable distributor for reconnection from AS-interface-flat cable to 4-pin M12 socket
- 2 connections: M12 socket with permanently attached cable, 1 m long, and M12 socket integrated in housing
- Reverse polarity protected



Accessories for valve terminals  
Electrical connector systems

**5.1**

| General technical data                         |                        |                                                              |
|------------------------------------------------|------------------------|--------------------------------------------------------------|
| Type                                           | ASI-KVT-FKx2-M12       |                                                              |
| Mounting position                              | Any                    |                                                              |
| Connection cross-section                       | [mm <sup>2</sup> ]     | 4x 0.34                                                      |
| AS-interface connection                        | Connection type        | AS-interface flat cable plug (must be ordered separately)    |
|                                                | Nominal voltage [V]    | 26.5 ... 31.6 DC                                             |
|                                                | Residual ripple [mVss] | 20                                                           |
| 24 V DC connection                             | Connection type        | AS-interface flat cable plug (must be ordered separately)    |
|                                                | Nominal voltage [V]    | 24 DC ±10%                                                   |
|                                                | Residual ripple [mVss] | 4                                                            |
| Protection class to EN 60 529                  |                        | IP65                                                         |
| Material                                       | Housing                | Polyamide                                                    |
|                                                | Cables                 | Polyurethane                                                 |
| Cable length                                   | [mm]                   | 1000                                                         |
| Ambient temperature                            | [°C]                   | −5 ... +50                                                   |
| Storage temperature                            | [°C]                   | −20 ... +70                                                  |
| Shock test                                     |                        | To DIN IEC 68; ±30 g at 11 ms, 15 cycles                     |
| Continuous shock test                          |                        | To DIN IEC 68; ±15 g at 6 ms, 1000 cycles                    |
| Vibration test                                 |                        | To DIN IEC 68; 0.35 mm at 10 ... 60 Hz, 5 g at 60 ... 150 Hz |
| Protection against direct and indirect contact |                        | By PELV                                                      |

| Ordering data                                                                       |                                                           |                    |                  |          |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------|------------------|----------|
| View                                                                                | Type of mounting                                          | Product weight [g] | Type             | Part No. |
|  | AS-interface flat cable plug (must be ordered separately) | 208                | ASI-KVT-FKx2-M12 | 527 474  |

# Electrical connection technology, for AS-interface

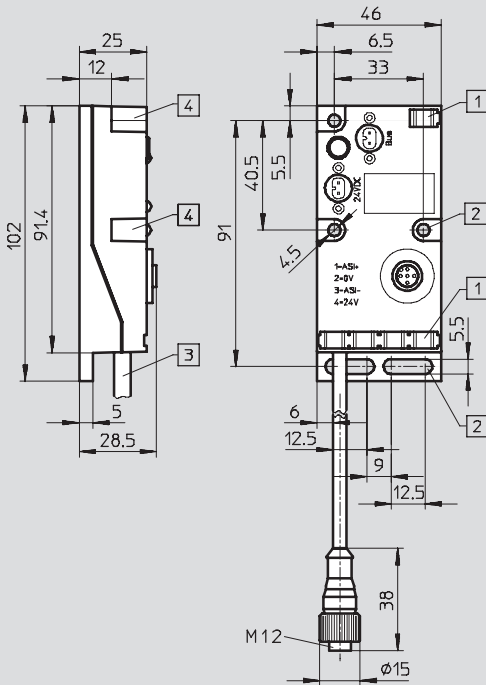
Technical data – ASI-KVT-FKx2

FESTO

## Dimensions

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

ASI-KVT-FKx2-M12



- 1 Inscription label mounting options
- 2 Mounting holes for surface mounting
- 3 Cable PUR-OB, 1 m long
- 4 Mounting holes for ITEM profile 40 mm or other mounting option

## Pin allocation

AS-interface and additional power supply

5-pin M12-socket and socket on the cable

|  |                                                                                                                              |  |                                                                                                                                                             |
|--|------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>1 AS-interface bus<br/>1: + (light blue)<br/>2: – (brown)</p> <p>2 Auxiliary power supply<br/>1: 0 V<br/>2: + 24 V DC</p> |  | <p>Pin 1: AS-interface +<br/>Pin 2: 0 V (auxiliary power supply)<br/>Pin 3: AS-interface –<br/>Pin 4: + 24 V (auxiliary power supply)<br/>Pin 5: Unused</p> |
|--|------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Electrical connection technology, for AS-interface

Technical data – KASI

**FESTO**

- Addressing cable for any slaves including
  - Individual valve interface
  - Midi/maxi valve terminal with AS-interface connection
  - CP valve terminals
- Cable length 2.5 m
- Pre-assembled
- Reverse polarity protected



Accessories for valve terminals  
Electrical connector systems

**5.1**

| General technical data        |                    |                         |
|-------------------------------|--------------------|-------------------------|
| Type                          | Type               | KASI-ADR                |
| Connection type               |                    | Plug-in/screw-in        |
| Connection cross-section      | [mm <sup>2</sup> ] | 2x 1.5                  |
| Protection class              |                    | IP65                    |
| Material of plug, straight    | Housing            | Polybuteneterephthalate |
|                               | Contacts           | Copper base alloy       |
|                               | Union nut          | Polybuteneterephthalate |
| Material of plug, angled      | Housing            | Polyurethane            |
|                               | Contacts           | Bronze                  |
|                               | Union nut          | Nickel-plated brass     |
| Material of flat cable socket | Housing            | Polyamide               |
|                               | Contacts           | Bronze                  |
| Material of cable sheath      |                    | Rubber compound         |
| Ambient temperature           | [°C]               | –40 ... +85             |

| Ordering data                                                                       |                                                                         |                         |       |                                  |          |          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------|-------|----------------------------------|----------|----------|
| View                                                                                | Electrical connection                                                   | Operating voltage range |       | Current-carrying capacity<br>[A] | Type     | Part No. |
|                                                                                     |                                                                         | [V]                     | [V]   |                                  |          |          |
|  | Plug, straight, 4-pin<br>Plug, angled, 4-pin<br>Socket, straight, 2-pin | 60 AC                   | 75 DC | 3                                | KASI-ADR | 18 960   |

# Electrical connection technology, for AS-interface

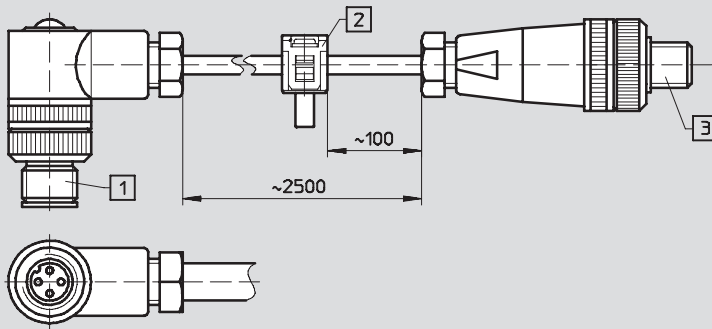
Technical data – KASI

FESTO

## Dimensions

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

KASI-ADR



- 1 Round plug connector for connection to addressing device
- 2 Flat cable socket for connecting stations in the AS-interface network with plug-in connection
- 3 Flat cable socket with M12 connection plug for stations in the AS-interface network with M12 interface

# Electrical connection technology, for AS-interface

Technical data – ASI-SS

**FESTO**

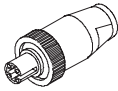
- Configuration plug for master: the connector must be plugged into the master before the configuration process. The operating voltage can then be applied. If the plug is removed during operation of the master, the master configuration is stored in non-volatile memory.
- 2-pin



Accessories for valve terminals  
Electrical connector systems

**5.1**

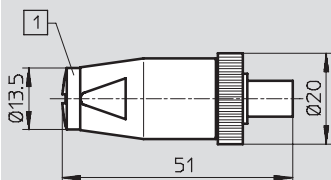
| General technical data      |                         |
|-----------------------------|-------------------------|
| Type                        | ASI-SS-CONFIG           |
| Mounting position           | Any                     |
| Protection class            | IP65                    |
| Material of contact         | Bronze                  |
| Material of contact surface | Nickel-tin alloy        |
| Material of housing         | Polybuteneterephthalate |
| Operating temperature [°C]  | –40 ... +85             |

| Ordering data                                                                       |                  |                        |                                    |                       |               |          |
|-------------------------------------------------------------------------------------|------------------|------------------------|------------------------------------|-----------------------|---------------|----------|
| View                                                                                | Type of mounting | Nominal voltage<br>[V] | Nominal current per contact<br>[A] | Product weight<br>[g] | Type          | Part No. |
|  | Knurled screw    | 250 AC                 | 3                                  | 10.7                  | ASI-SS-CONFIG | 18 961   |

## Dimensions

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

ASI-SS-CONFIG



1 Protective cover

# Electrical connection technology, for AS-interface

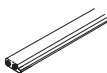
Technical data – KASI-1,5

FESTO

- Flat cable, 2-core
- Reverse polarity protected
- Contact established using insulation displacement technology – no need to strip cable and wire insulation
- 2 different colours: yellow (preferred for the AS-interface network) and black (for auxiliary power supply)
- Pre-assembled
- Accessories
  - Flat cable sleeve  
For insulating and sealing the AS-interface cable
  - Cable cap  
For insulating and sealing the AS-interface cable at the end of the string



| General technical data                                  |                     |                 |
|---------------------------------------------------------|---------------------|-----------------|
| Type                                                    | KASI-1,5-Y-100      |                 |
| Connection cross-section [mm <sup>2</sup> ]             | 2x 1.5              |                 |
| Max. cable length [m]                                   | 100                 |                 |
| Colour                                                  | Yellow              | Black           |
| Use                                                     | For indoor use only | For outdoor use |
| Ambient temperature [°C]                                | –40 ... +85         |                 |
| Ambient temperature of flexible cable installation [°C] | –25 ... +85         |                 |

| Ordering data                                                                       |                                                   |                            |                         |       |                               |                    |                |          |
|-------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------|-------------------------|-------|-------------------------------|--------------------|----------------|----------|
| View                                                                                | Material                                          | Protection class           | Operating voltage range |       | Current-carrying capacity [A] | Product weight [g] | Type           | Part No. |
|                                                                                     |                                                   |                            | [V]                     | [V]   |                               |                    |                |          |
|  | Sheath:<br>Cable:<br>Conductor: tin-plated copper | IP65 with closed wire ends | 60 AC                   | 75 DC | 3                             | 71                 | KASI-1,5-Y-100 | 18 940   |
|                                                                                     |                                                   |                            |                         |       |                               |                    | KASI-1,5-Z-100 | 18 941   |
|  | Polyamide                                         | IP65                       | –                       | –     | –                             | –                  | ASI-KK-FK      | 18 787   |
|  |                                                   |                            | –                       | –     | –                             | –                  | ASI-KT-FK      | 165 593  |

# Electrical connection technology, for AS-interface

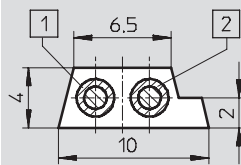
FESTO

Technical data – KASI-1,5

## Dimensions

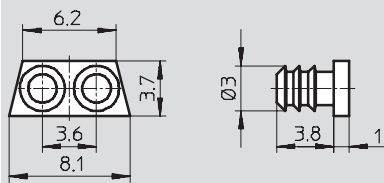
Download CAD data → [www.festo.com/en/engineering](http://www.festo.com/en/engineering)

Flat cable – KASI-1,5-...-100



- 1 Blue (-)
- 2 Brown (+)

Cable cap – ASI-KK-FK



Flat cable sleeve – ASI-KT-FK

