MPA valve terminal for AS-interface
Modular, flexible and with a choice of inputs

FESTO

Compact & modular!

Flexible decentralisation and cost-effective installation made easy with the highly modular MPA valve terminal and an AS-interface system. In total, the advantages of innovative valve technology and a high-performance bus interface. Typical of AS-interface: A simple systematic solution.

Electrical performance
"Flexible" here means compact, with integrated inputs and choice of electrical connection systems. Moreover, the cost of component stocks is halved, thanks to the choice of power supply via yellow or black cables. 4 I/Os or 8 I/Os as a double slave. With ample power: 350 mA per input.

Pneumatic performance
On one platform: 2 … 8 modular valve positions, all valve functions, several pressure zones, mix of two sizes possible for different flow rates. Together with pressure regulators and gauges for precision pressure at each valve position.

AS-interface performance
Specification 2.1 with a fault bit and LED per slave. Bus and additional power supply looped through via 2x M12 plugs. Diagnostics for each slave. Watchdog. A/B operation on request.

Applications
Highly modular e.g. for special machines or applications with modification options. Compact for confined spaces. Bus connection via M12 round connector ideal for chain-link trunking or humid environments.

Bus 2x M12: Easy expansion   Any desired mix of valve sizes   Exploit the modularity for I/Os
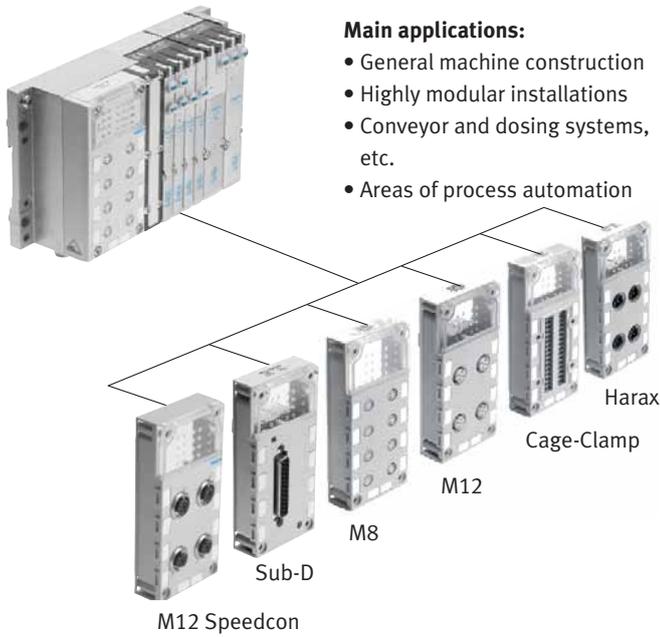
220.2.**PSI**

Product Short Information

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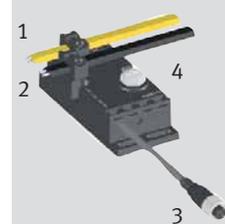## Choice of connection system for inputs

Main applications:
- General machine construction
- Highly modular installations
- Conveyor and dosing systems, etc.
- Areas of process automation

Harax

Cage-Clamp

M12

M8

Sub-D

M12 Speedcon

Three good reasons …

… to choose Festo AS solutions

1. Up to 40% faster cycle times, thanks to shorter tubing lengths. Optimum decentralised AS-interface installations with MPA-ASI valve terminals and AS-i I/O modules.
2. Lower energy consumption and optimised pneumatic sequences with optimally-sized control chains. Switchable power supply gives flexibility and reduces need for component stocks. Ideal pairings of 4 valves and 8 inputs create transparency and reduces errors.
3. Cut installation costs by as much as 40% compared with conventional solutions – using AS-interface!

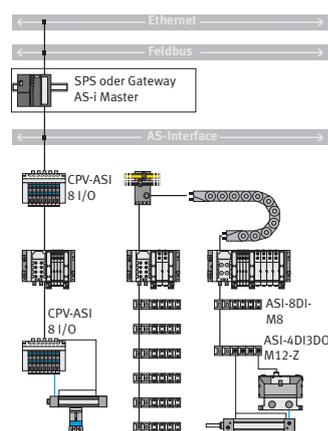## Flat cable distributor – M12 connection

1 AS-interface flat cable
2 External power supply
3 Pre-fitted cable with M12 socket
4 M12 socket for connection of AS Interface slave

Technical data	**AS-interface** (AS-interface Spec. 2.1)
Int. power consumption	Electronics 4 I/Os 15 mA, 8 I/Os 25 mA
AS-interface display	Green/red LEDs
Bus connection	M12 4-pin or AS-interface yellow profile cable 2x1.5 mm via adapter
Degree of protection	IP65
Mounting	Top-hat rails and wall mounting
External power supply	
Operating voltage	24 VDC ± 25%
Connection	M12 4-pin via bus connection
Technical data for I/Os	
4 I/O	4x inputs, 2-4 valve coils
8 I/O	8x inputs, 2-8 valve coils
Technical data for outputs	
Max. switching current with external power supply 24 V	
4 I/O	MPA1 = 270 mA, MPA2 = 533 mA[1]
8 I/O	MPA1 = 540 mA, MPA2 = 1065 mA[2]
Valves	Supports MPA1 and MPA2
Display	Yellow LED
Technical data for inputs	
Sensor power supply	Max. 350 mA per input
Total current	350 mA (with/without ext. p/supply)[1]
Short-circuit protection	Yes, short-circuit and overload protection (complete module)

	4 I/Os	8 I/Os
No. of AS-interface chips	1	2
ID code	Fh	Fh
Expanded ID code	Fh	Fh
I/O code	7h	7h

Control system architecture
Valve terminals and "Compact Line" I/O modules in an AS-interface network

Ethernet

Feldbus

SPS oder Gateway AS-i Master

AS-Interface

CPV-ASI 8 I/O

CPV-ASI 8 I/O

ASI-8DI-M8

ASI-4DI3DO-M12-Z

AS-interface accessories

Yellow/black cable distributor 2xM12

Addressing unit

AS-interface power pack

AS-Interface cables yellow/black

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[1] Additional power supply with on/off switching. Without additional power supply max. 500 mA for valves and inputs
[2] Always with additional power supply