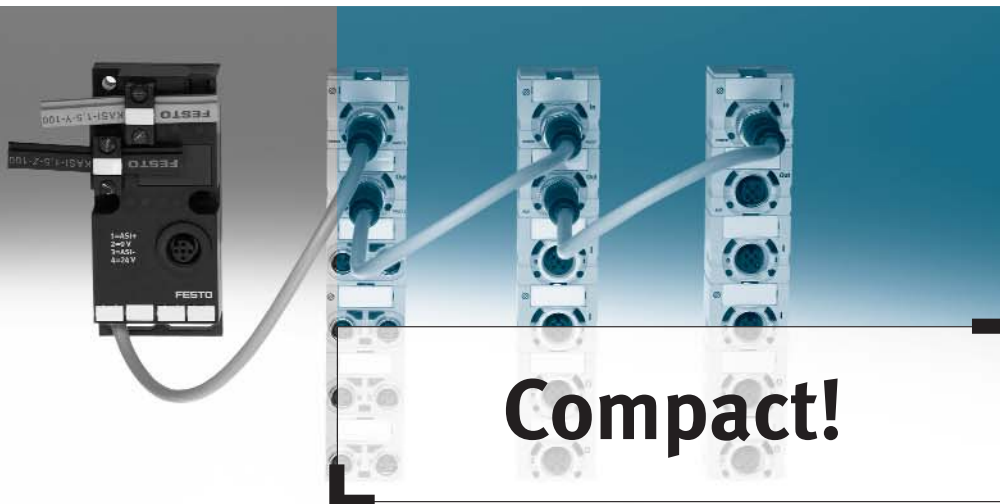


# I/O modules for AS-interface

FESTO



**AS-interface Compact Line modules: Ideal for use in decentral handling and assembly applications.** Used in conjunction with the CPV or CPA/MPA valve-terminal series, these modules provide a complementary I/O solution through standardised connections. That's AS-interface: Simple systematic solutions.



Thanks to their compact dimensions (length 150 mm, width approx. 30 mm, height approx. 23 mm), these modules can be installed even closer to sensors and actuators. Electronics encapsulated in plastic brings decisive advantages in terms of space, weight and robustness. The new 8DI-M8 or 4DI3DO-M12 modules are the attractive alternatives to older bulky I/O modules. They can be supplied in accordance with the intended application as conventional I/O modules or with pre-assembled valve plugs and cables as Festo plug and work<sup>®</sup> solutions.

**These AS-i I/O modules are perfectly matched to:**

- AS-interface specification 2.11
- A/B operation
- Looping-through of bus and auxiliary power supply via 2 x M12 plug sockets
- Diagnostics for each module
- Use in harsh environments

Cut your installation costs – with these compact AS-i I/O modules and Festo as your single-source partner.



Bus 2 x M12: Simple expansion

Compact and space-saving

Robust: IP 65/67

220.1.PSI →

Product Short Information

# I/O modules for AS-interface

## Technical data

Designation	ASI-8DI-M8	ASI-4DI-3DO-M12-Z
Degree of protection	IP65/IP67	
No. of inputs	8 digital inputs as per IEC1131, Type 2 0.2A per input	4 digital inputs as per IEC1131, Type 2 0.2A per input
Sensor power supply	24 V DC from AS-interface cable, total current per module max. 0.25A, Short-circuit-proof, overload-proof (electronic fuse)	
Sensor connection	8 x M8 socket, 3-pin	2 x M12 socket, 5-pin, double-allocated
No. of outputs	–	3 digital outputs, 1A per output, parallel switching permissible
Actuator power supply	–	24V DC AUX +/- 25% Total current per module max. 3 A Short-circuit-proof, overload-proof (thermal fuse)
Actuator connection	–	2 x M12 socket, 5-pin, double-allocated
Display components	8 x LED for sensor switching statuses 2 x fault display (short-circuit/overload) 1 x bus operating status display	4 x LED for sensor switching statuses 3 x LED for actuator switching statuses 1 x fault display (short-circuit/overload) 1 x auxiliary power supply display 1 x bus operating status display
Interface	Incoming and ongoing AS-interface M12 connection, 4-pin	

Designation	ASI-4DI-2DO-MF-Z	ASI-4DI-2DO-MEB-Z	ASI-4DI-2DO-MZB9-Z
Degree of protection	IP65/IP67	IP65/IP67	IP65/IP67
No. of inputs	4 digital inputs as per IEC1131, Type 2		
Inputs/outputs	Technical data as for module ASI-4DI3DO-M12-Z but with two ready-made valve connecting cables: pre-assembled, tested, ready to connect up.		
Actuator connection	Valve plug for Festo F coils, industry standard as per DIN EN 175 301	Valve plug for Festo EB coils, DIN EN 175 301 type C (8 mm)	Valve plug for Festo ZC coils (CPE10/14), with integrated holding-current reduction

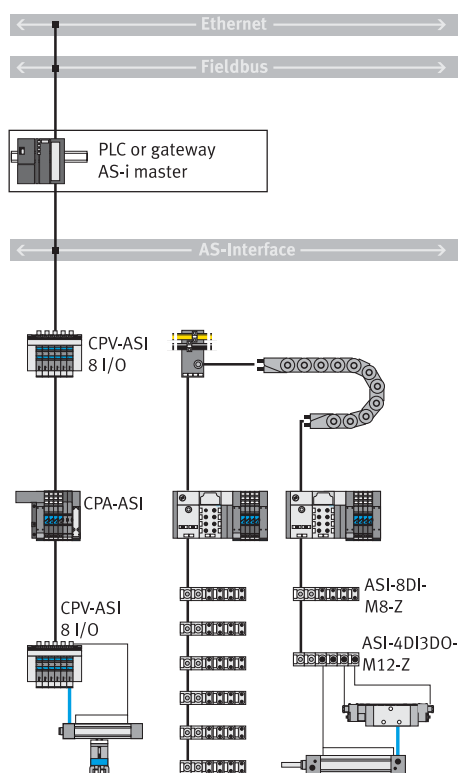
## Three good reasons

to choose AS-interface solutions from Festo

1. Upstream valve/cylinder combinations with short tubing lines reduce cycle times by up to 40%. The optimum answer: Decentral AS-interface installations with valve terminals and AS-i I/O modules from Festo.
2. You can cut cycle times by a further 30% with the SPC11. This electronic end-position controller replaces mechanical shock absorbers and can also be used with an AS-interface network as a simple pneumatic positioning system.
3. AS-interface saves you up to 40% compared with the costs of conventional installation.

## Control-system architecture

Compact Line I/O modules in AS-interface network



Cable distributor  
yellow/black  
2 x M12



Addressing unit



CPA/MPA valve  
terminal with M12  
bus connection



Combination power  
supply with 24 V  
DC AUX and 31.6 V  
DC ASI

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