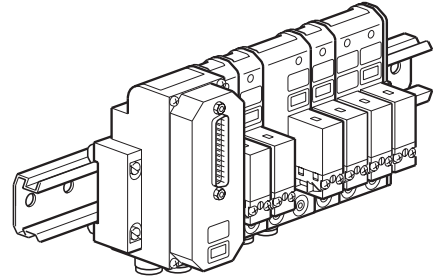


- 3/2 and 4/2 module poppet valves
- Push-in connection
- High performance 15 mm solenoid DIN 43 650 C
- Electrical connection by Cable gland, Sub D25 or Industrial Cylindrical Connector
- Visual indication by LED with build in surge suppression
- Compatible with sensor and device bus



Dimensions see page 39

## Operating information

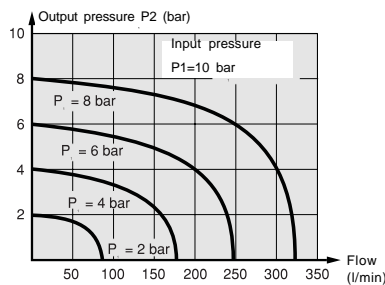
Working pressure	3 to 8 bar	Duty factor	100%
Working temperature	-15 °C to +60 °C	Standard Voltage	12 to 48 V DC 24 to 115 V AC
Storage temperature	-40 °C to +70 °C	Surge suppression	Diode for DC version Varistor for AC version
Fluids	Air or gas, 50 µm filtered, lubricated or not	Consumption	1,2 W 1,6 VA hold 1,2 W 3,5 VA inrush
Response time	10 to 15 ms	Flow:	Qn=1,7 NI/s (100 NI/min) Qmax=3,4 NI/s (200 NI/min) Cv=0,14 kv=2
Mechanical life with dry air at 6 bar, 20 °C, 1 Hz:	30 million cycles		
Orientation	Any plane	(acc. ISO 6358)	
Maximum operating frequency	10 Hz		
Degree of protection	IP 65		

## Additional information

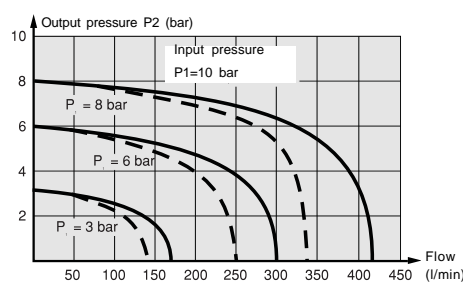
Modules for the DC version are protected against overvoltage up to 300 V. Protections on inductive loads connected to the same source are necessary.

Modules for the AC version fitted with a DC solenoid are compatible with PLC control card NPN protected.

**3/2 valve**

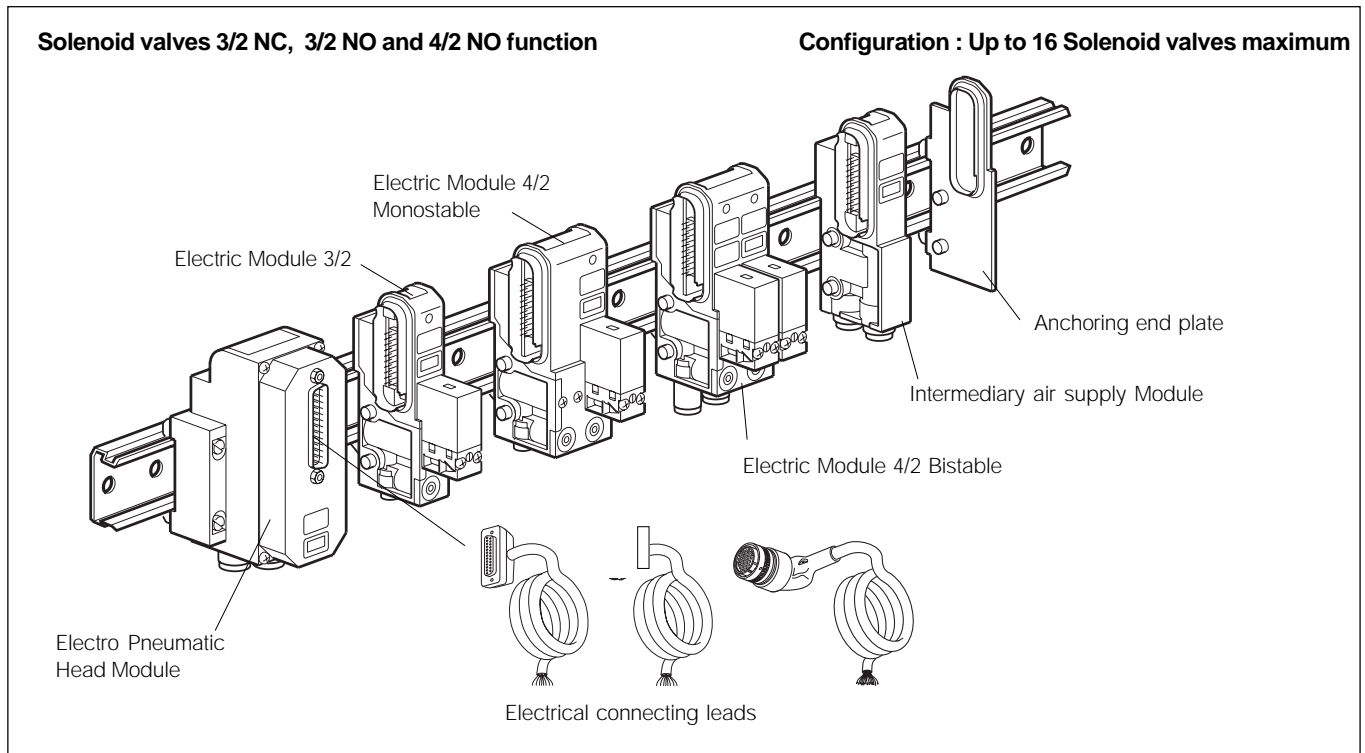


**4/2 valve**

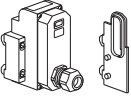
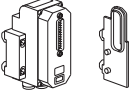
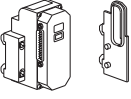
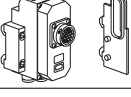




— Threaded connection  
- - - Push-in connection


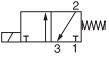

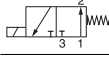



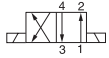
The Interface valves are of a poppet design, therefore they are unsuitable for use with Soft Start valves. When pressure is applied, the bistable interface takes a pre determined position (non activated). In the absence of electrical signal, output 2 (yellow indicator) is activated, output 4 (red indicator) is not activated. Bistable version is delivered as standard with non locking flush override, and monostable version with locking flush override.



**Head and tail sets, intermediate air supply module**


	Description	Electrical connection	Pneumatical connection	Weight kg	Order code
	Pneumatical and electrical head and tail	HE10 20 pins with cable gland	Ø6	0,170	<b>P2S-EA146H20A</b>
			Ø8	0,180	<b>P2S-EA148H20A</b>
		Cable gland and 5 m flying lead	Ø6		<b>P2S-EA146H20A5</b>
			Ø8		<b>P2S-EA148H20A5</b>
		Sub D25 on the top	Ø6	0,175	<b>P2S-EA146D25AT</b>
			Ø8	0,185	<b>P2S-EA148D25AT</b>
		Sub D25 on the side	Ø6	0,175	<b>P2S-EA146D25AS</b>
			Ø8	0,185	<b>P2S-EA148D25AS</b>
		Cylindrical 19 pins connection	Ø6	0,175	<b>P2S-EA146C19A</b>
			Ø8	0,185	<b>P2S-EA148C19A</b>
	Intermediary air supply module		Ø6	0,060	<b>P2S-EA246</b>
			Ø8	0,070	<b>P2S-EA248</b>

**Electro-Pneumatic module with DIN 43 650 form C pin spacing Solenoid**

Type	Symbol	Actuator	Return	Push-in fittings mm	LED indicator and surge suppressor	Weight kg	Voltage	Order code
		Electric 3/2 NC (2)	Spring	Ø4	Yes No	0,095 0,095	24 VDC	<b>P2S-EW344ES2CR</b> <b>P2S-EW344ES2CL</b>
				Ø6	Yes No	0,105 0,105		<b>P2S-EW346ES2CR</b> <b>P2S-EW346ES2CL</b>
		Electric 3/2 NO (2)	Spring	Ø4	Yes No	0,095 0,095	24 VDC	<b>P2S-EW144ES2CR</b> <b>P2S-EW144ES2CL</b>
				Ø6	Yes No	0,150 0,150		<b>P2S-EW444ES2CR</b> <b>P2S-EW444ES2CL</b>
		Electric 4/2 Monostable (2)	Spring	Ø4	Yes No	0,150 0,150	24 VDC	<b>P2S-EW444ES2CR</b> <b>P2S-EW444ES2CL</b>
				Ø6	Yes No	0,160 0,160		<b>P2S-EW446ES2CR</b> <b>P2S-EW446ES2CL</b>
		Electric 4/2 Bistable (1)	Electric	Ø4	Yes No	0,180 0,180	24 VDC	<b>P2S-EW444EE2CQ</b> <b>P2S-EW444EE2CN</b>
				Ø6	Yes No	0,190 0,190		<b>P2S-EW446EE2CQ</b> <b>P2S-EW446EE2CN</b>

(1) With override non locking flush  
(2) With override locking flush

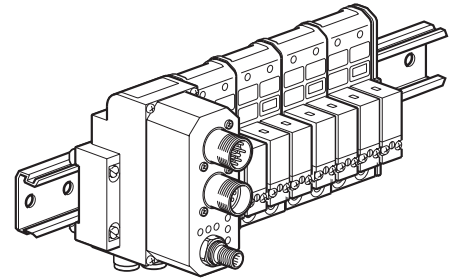
**Electro-Pneumatic module without solenoid\*\***

Type	Symbol	Actuator	Return	Push-in fittings mm	LED indicator and surge suppressor	Weight kg	Voltage*	Order code	
		Electric 3/2 NC	Spring	Ø4	No Yes Yes	0,060 0,060 0,060	- AC DC	<b>P2S-EW344ES</b> <b>P2S-EW344ES4</b> <b>P2S-EW344ES5</b>	
					Ø6	No Yes Yes	0,070 0,070 0,070	- AC DC	<b>P2S-EW346ES</b> <b>P2S-EW346ES4</b> <b>P2S-EW346ES5</b>
				Ø4		No Yes Yes	0,060 0,060 0,060	- AC DC	<b>P2S-EW144ES</b> <b>P2S-EW144ES4</b> <b>P2S-EW144ES5</b>
						Ø6	No Yes Yes	0,115 0,115 0,115	- AC DC
				Ø4			No Yes Yes	0,125 0,125 0,125	- AC DC
					Ø6		No Yes Yes	0,125 0,125 0,125	- AC DC

\* Voltages  
DC voltage 12-48 VDC  
AC voltage 24-115 VAC

\*\* To select and order Solenoid Type P2E-KS refer to page 34

- IP 65 Module for up to 16 interface valves
- Interface valves 3/2 or 4/2, 24 V DC with LED
- Bus diagnostic visualisation by LED
- Interbus S
- Profibus DP
- DeviceNet



Dimensions see page 39

## Operating information

Protection level	IP 65
Diagnostic Bus	3 to 4 LED
Diagnostic voltage	2 LED
Vibrations	IEC 68-2-6 1g
Shocks	IEC 68-2-7 15 g 11 ms
EMC Protection	EN55011, level B EN61000-4-2, level B EN61000-4-3, level A EN61000-4-4, level B EN61000-4-6, level A
Working temperature	0 °C to 55 °C
Storage temperature	-40 °C to +70 °C
Bus supply voltage	20,4 to 30 V DC
Solenoid supply voltage	21,6 to 26,4 V DC

## Additional information

### Electrical power supply connection on head module

Connector M12 male 5 pins  
(common to all Field Bus)

### Bus connection on head module

#### Interbus S

Connector M23 male 9 pins (Bus IN)\*  
Connector M23 female 9 pins (Bus Out)\*

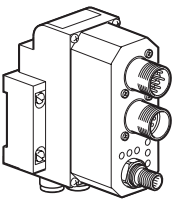
#### Profibus DP

Connector M12 male 5 pins (Bus IN)  
Connector M12 female 5 pins (Bus Out)

#### DeviceNet

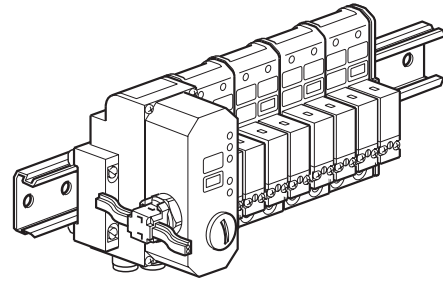
Connector M12 male 5 pins (Bus)

## Main data for Device Bus - Interbus S - Profibus D.P. - DeviceNet

	Description	Connection	Maximum output	Weight kg	Order code
	Interbus S module unit	Ø6 mm	16	0,365	<b>P2S-EA146BS16A</b>
	built in air feed connection Ø8 mm		16	0,370	<b>P2S-EA148BS16A</b>
	Profibus DP module unit	Ø6 mm	16	0,280	<b>P2S-EA146BP16A</b>
	built in air feed connection Ø8 mm		16	0,290	<b>P2S-EA148BP16A</b>
	DeviceNet module unit	Ø6 mm	16	0,280	<b>P2S-EA146BD16A</b>
	built in air feed connection Ø8 mm		16	0,290	<b>P2S-EA148BD16A</b>
	Elbow connector (non shielded) Connection to be made up	Male 5 pins	5 pin -	0,025	<b>P8C-S1205M</b>
	Elbow connector (non shielded) Connection to be made up	Female	5 pin -	0,025	<b>P8C-S1205R</b>
	Terminal bus Profibus	Female	5 pins	0,025	<b>P8B-PA001</b>
	Installation Diskett Profibus DP or Device Net				<b>P8B-PDISK</b>

\* We recommend to use connecting leads which conform to Interbus S such as Phoenix contact or equivalent.

- Integrated ASI Module up to 8 interface monostable valves or 4 interface bistable valves
- Connection by vampire plug
- ASI diagnostic by LED
- Protection level IP65
- DIN rail 35 mm mounting

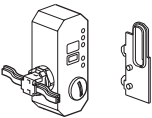



Dimensions see page 39

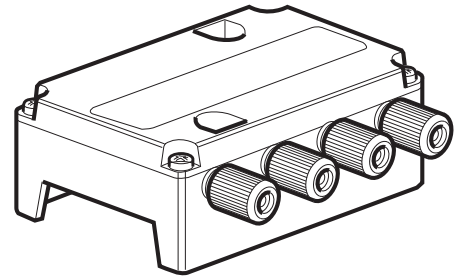
## Operating information

Protection level	IP 65
Operating voltages	26,9 to 31,6 V (conform ASI)
ASI diagnostic	By double LED
Vibration	IEC 68-2-6 1g
Shocks	IEC 68-2-27 15g 11 ms
Short circuit protection	Diagnostic by LED
EMC protection	IEC 801-2 level 3 IEC 801-3 level 3 IEC 801-4 level 3
Working temperature	0 °C to 55 °C
Storage temperature	-40 °C to +70 °C
Solenoids supply voltage	From ASI module
Bus connections	Vampire plug
Consumption per solenoid	55 mA
Available current	500 mA
Identification code	8.F.
Mounting	DIN rail, height 15 mm

## Main data for ASI - Actuator Sensor Interface Bus

	Description	Pneumatical connection mm	Number Outputs	Weight kg	Order code
	ASI module unit	Ø 6	4	0,230	<b>P2S-EA146BA4V</b>
	built in air feed connection	Ø 6	8	0,230	<b>P2S-EA146BA8V</b>
		Ø 8	8	0,230	<b>P2S-EA148BA8V</b>
	Spare Vampire plug cover clip			0,050	<b>P8B-AVMP2</b> Sold by lot of 5
	Connecting lead for the addressing terminal				<b>P8L-MH02B1</b>

- 4 inputs
- Suitable for 3 wires sensors (2 wires Sensors according types)
- Spring loaded quick connection
- Surface or DIN rail 35 mm mounting
- Protection level IP65



Dimensions see page 39

## Operating information

### BUS

Voltage range	26,9 to 31,6 VDC
Consumption	≤ 220 mA
Protection against reverse polarity	Yes
I/O configurations	0 Hex
ID code	F Hex / 0 Hex
Indication ASI voltage	Green LED

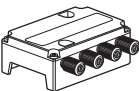
### Inputs

Supply connection	Directly from ASI yellow wire
Power supply for 3 wires detectors	25 - 30 V DC by spring terminal block
Protection against short-circuits	Yes
Total detectors current	200 mA
Inputs polarity	PNP
Input current State 1 / State 0	≥ 1,5 mA / ≤ 0,5 mA
Input voltage State 1 / State 0	> 10 V DC / < 5 V DC
Inputs indication	yellow LED
Cable	Ø 2,8 to 6 mm

### Technical characteristics

Degree of protection	IP 65 (with E PDM cable )
Operating temperature	-25 °C to +70 °C
EMC. protection	IEC 801-2 level 3 IEC 801-3 level 3 IEC 801-4 level 3 / A, 3/B
Mounting	DIN rail / screw

## Main data for ASI Module with connection for 4 inputs

	Description	Number Inputs	Weight kg	Order code
	ASI input connecting module for PNP sensor	4	0,140	<b>P8B-A04V</b>
	Connecting accessory for the addressing terminal		0,050	<b>P8B-AVMP1</b>