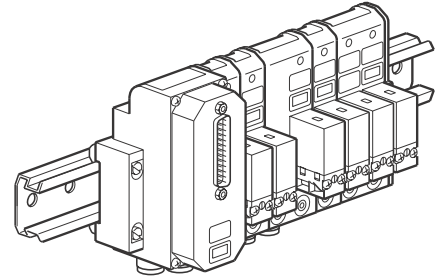


- ñ 3/2 and 4/2 module poppet valves
- ñ Push-in connection
- ñ High performance 15 mm solenoid DIN 43 650 C
- ñ Electrical connection by Cable gland, Sub D25 or Industrial Cylindrical Connector
- ñ Visual indication by LED with build in surge suppression
- ñ Compatible with sensor and device bus



Dimensions see page 39

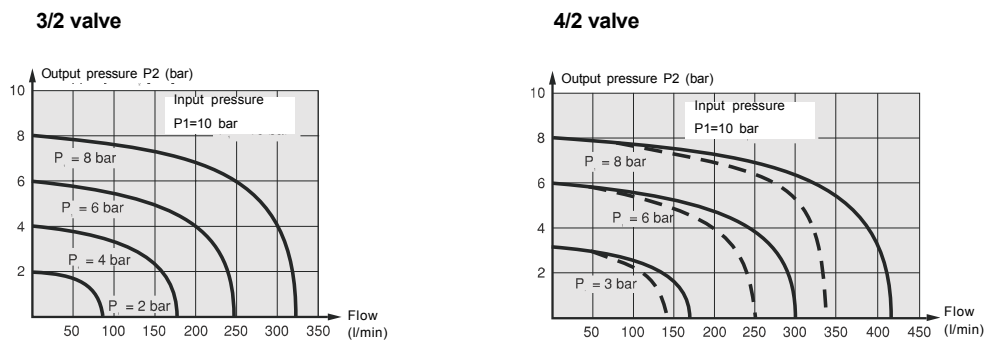
Operating information

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

Additional information

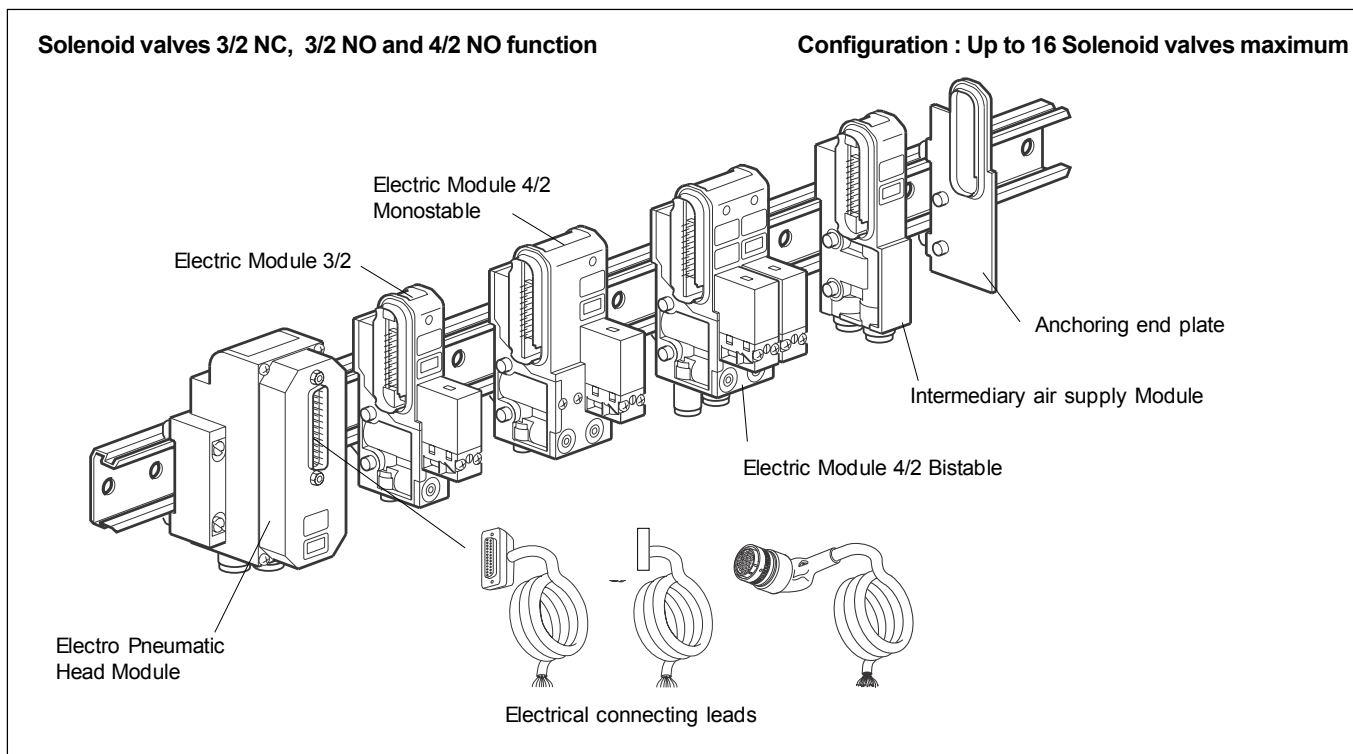
Modules for the DC version are protected against overvoltage up to 300 V. Protections on inductive loads connected to the same source are necessary.

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

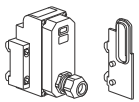
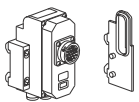
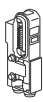


The Interface valves are of a poppet design, therefore they are unsuitable for use with Soft Start valves.


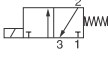

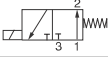

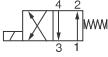


When pressure is applied, the bistable interface takes a pre determined position (non activated). In the absence of electrical signal, output 2 (yellow indicator) is activated, output 4 (red indicator) is not activated. Bistable version is delivered as standard with non locking flush override, and monostable 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	/ 6 / 8	0,170 0,180	P2S-EA146H20A P2S-EA148H20A
		Cable gland and 5 m flying lead	/ 6 / 8		P2S-EA146H20A5 P2S-EA148H20A5
		Sub D25 on the top	/ 6 / 8	0,175 0,185	P2S-EA146D25AT P2S-EA148D25AT
		Sub D25 on the side	/ 6 / 8	0,175 0,185	P2S-EA146D25AS P2S-EA148D25AS
		Cylindrical 19 pins connection	/ 6 / 8	0,175 0,185	P2S-EA146C19A P2S-EA148C19A
			Intermediary air supply module		/ 6 / 8


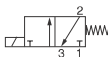

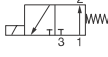

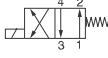


Electro-Pneumatic module with DIN 43 650 form C pin spacing Solenoid

Type	Symbol	Actuator	Return	Push-in fittings mm	LED indicator and surge suppressor	Weight kg	Voltage	Order code
		Electric 3/2 NC (2)	Spring	/ 4	Yes No	0,095 0,095	24 VDC	P2S-EW344ES2CR P2S-EW344ES2CL
				/ 6	Yes No	0,105 0,105		P2S-EW346ES2CR P2S-EW346ES2CL
		Electric 3/2 NO (2)	Spring	/ 4	Yes No	0,095 0,095	24 VDC	P2S-EW144ES2CR P2S-EW144ES2CL
				/ 6	Yes No	0,150 0,150		P2S-EW444ES2CR P2S-EW444ES2CL
		Electric 4/2 Monostable (2)	Spring	/ 4	Yes No	0,150 0,150	24 VDC	P2S-EW444ES2CR P2S-EW444ES2CL
				/ 6	Yes No	0,160 0,160		P2S-EW446ES2CR P2S-EW446ES2CL
		Electric 4/2 Bistable (1)	Electric	/ 4	Yes No	0,180 0,180	24 VDC	P2S-EW444EE2CQ P2S-EW444EE2CN
				/ 6	Yes No	0,190 0,190		P2S-EW446EE2CQ P2S-EW446EE2CN

(1) With override non locking flush

(2) With override locking flush

Electro-Pneumatic module without solenoid**

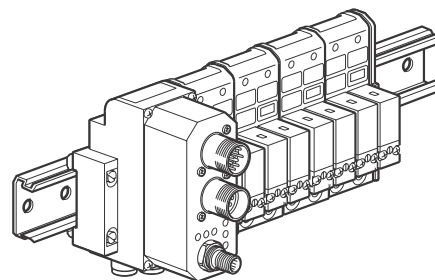
Type	Symbol	Actuator	Return	Push-in fittings mm	LED indicator and surge suppressor	Weight kg	Voltage*	Order code
		Electric 3/2 NC	Spring	/ 4	No	0,060	-	P2S-EW344ES
					Yes	0,060	AC	P2S-EW344ES4
				/ 6	Yes	0,060	DC	P2S-EW344ES5
					No	0,070	-	P2S-EW346ES
					Yes	0,070	AC	P2S-EW346ES4
					Yes	0,070	DC	P2S-EW346ES5
		Electric 3/2 NO	Spring	/ 4	No	0,060	-	P2S-EW144ES
					Yes	0,060	AC	P2S-EW144ES4
				/ 6	Yes	0,060	DC	P2S-EW144ES5
					No	0,115	-	P2S-EW444ES
					Yes	0,115	AC	P2S-EW444ES4
					Yes	0,115	DC	P2S-EW444ES5
		Electric 4/2 Monostable	Spring	/ 4	No	0,115	-	P2S-EW444ES
					Yes	0,115	AC	P2S-EW444ES4
				/ 6	Yes	0,115	DC	P2S-EW444ES5
					No	0,125	-	P2S-EW446ES
					Yes	0,125	AC	P2S-EW446ES4
					Yes	0,125	DC	P2S-EW446ES5
		Electric 4/2 Bistable	Electric	/ 4	No	0,115	-	P2S-EW444EE
					Yes	0,115	AC	P2S-EW444EE4
				/ 6	Yes	0,115	DC	P2S-EW444EE5
					No	0,125	-	P2S-EW446EE
					Yes	0,125	AC	P2S-EW446EE4
					Yes	0,125	DC	P2S-EW446EE5

* Voltages

DC voltage 12-48 VDC
AC voltage 24-115 VAC

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

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

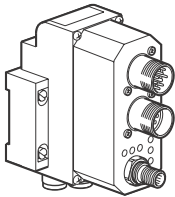
Profibus DP

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

DeviceNet

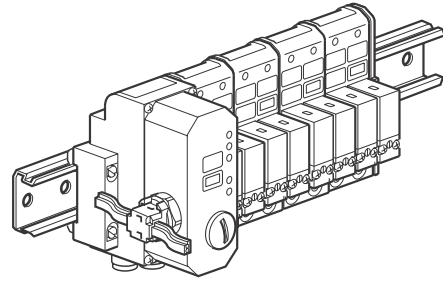
Connector M12 male 5 pins (Bus)

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

Description	Connection	Maximum output	Weight kg	Order code
 Interbus S module unit built in air feed connection / 8 mm	/ 6 mm	16	0,365	P2S-EA146BS16A
		16	0,370	P2S-EA148BS16A
Profibus DP module unit built in air feed connection / 8 mm	/ 6 mm	16	0,280	P2S-EA146BP16A
		16	0,290	P2S-EA148BP16A
DeviceNet module unit built in air feed connection / 8 mm	/ 6 mm	16	0,280	P2S-EA146BD16A
		16	0,290	P2S-EA148BD16A
Elbow connector (non shielded) Connection to be made up	Male 5 pins	5 pin -	0,025	P8C-S1205M
Elbow connector (non shielded) Connection to be made up	Female	5 pin -	0,025	P8C-S1205R
Terminal bus Profibus	Female	5 pins	0,025	P8B-PA001
Installation Diskett Profibus DP or Device Net				P8B-PDISK

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

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



Dimensions see page 39

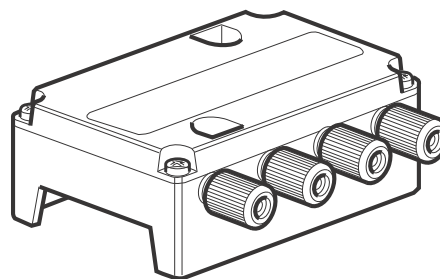
Operating information

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	/ 6	4	0,230	P2S-EA146BA4V
	built in air feed connection	/ 6	8	0,230	P2S-EA146BA8V
		/ 8	8	0,230	P2S-EA148BA8V
	Spare Vampire plug cover clip			0,050	P8B-AVMP2 Sold by lot of 5
	Connecting lead for the addressing terminal				P8L-MH02B1

- ñ 4 inputs
- ñ Suitable for 3 wires sensors
(2 wires Sensors according types)
- ñ Spring loaded quick connection
- ñ Surface or DIN rail 35 mm mounting
- ñ 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	/ 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	P8B-A04V
Connecting accessory for the addressing terminal		0,050	P8B-AVMP1