

Series 2200 "OPTYMA-S"

General

Optyma32-S has been designed in order to complete the Optyma series of valves.

Optyma-S,12.5mm size, integrates all the technical features already developed and implemented on the Optima T & F such as the integrated electrical connection. Further technical specifications are:

- Flow rate: up to 550[NI/min], using the modular base with Ø8 quick fitting tube.
- Modular base available with Ø4, Ø6, Ø8 quick fitting tube.
- The solenoid pilots are low consumption and fitted on the same side of the valve.
- Mono and bistable valves have the same dimension.
- Easy and fast assembly on the sub base thanks to the "one screw" mounting solution.
- Possibility to replace a valve without the need of disconnecting the pneumatic pipes.
- Electrical and pneumatic connections positioned on the same side.
- Possibility to operate with different pressures and vacuum.
- Management of 32electrical signals, (16 bi-stable or any combination off mono and bi-stable vales up to max 32 signals).
- The protection grade is IP65 directly integrated in the manifold components.
- The electrical connection is achieved thanks to a 37 pole connector.
 Possibility to integrate with Field Bus modules CANopen[®], PROFIBUS DP, DeviceNet, EtherNet/IP, PROFINET IO RT/IRT, EtherCAT Powerlink and Modbus/TCP.

"Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001, Pneumatic fluid power-Directional control valves-Measurement of shifting time"

Main characteristics

One size: 12.5mm thick Monostable and bistable valves with same dimensions Modular subbase with two positions Modular subbases assembled via tie rods Quick coupling connections directly integrated in sub base Integrated and optimized electrical connection system. IP65 protection grade as standard

Construction characteristics

Body	Technopolymer
Operators	Technopolymer
Spacers	NBR
Spacer	Technopolymer
Spools	AISI 303 stainless steel
Springs	AISI 303 stainless steel
Pistons	Technopolymer
Piston seals	NBR

Functions

SV 5/2 MONOSTABLE SOLENOID-SPRING SV 5/2 MONOSTABLE SOLENOID-DIFFERENTIAL SV 5/2 BISTABLE SOLENOID-SOLENOID SV 5/3 C.C. SOLENOID-SOLENOID SV 2x3/2 N.C.-N.C. (=5/3 O.C.) SOLENOID-SOLENOID SV 2x3/2 N.O.-N.O. (=5/3 P.C.) SOLENOID-SOLENOID SV 2x3/2 N.C.-N.O. SOLENOID-SOLENOID SV 2x3/2 N.O.-N.C. SOLENOID-SOLENOID

Technical characteristics

Voltage	24VDC \pm 10% PNP (NPN and AC on request)	
Pilot consumption	0,5 Watt	
Pilot working pressure (12-14)	from 2,5 to 7 bar max.	
Valve working pressure [1]	from vacuum to 10 bar max.	
Operating temperature	from -5°C to +50°C	
Protection degree	IP65	
Life (standard operating conditions)	5000000	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	



Solenoid - Spring

2241.52.00.39. Coding:

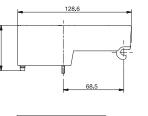
Operational characteristics			VOLTAGE
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		02 = 24 VDC PNP
Working pressure (bar)	From vacuum to 10		12 = 24 VDC NPN
Pressure range (bar)	2,5 ÷ 7		05 = 24 VAC
Temperature °C	-5 ÷ +50		ORT FUNCTION CODE "A"
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	550 Weight 67 g		eight 67 g
Responce time according to ISO 12238, activation time (ms)	12		
Responce time according to ISO 12238, deactivation time (ms)	20		

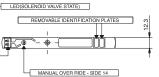
Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001



Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.01. $\Box = 140$ Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. $\Box = 100$ tubo 0.00 to 0.00 tubo 0.00 to 0.00 tubo 0.00 to 0.00 tubo 0.00 to 0.00 tubo 0.00 tub

Flow rate at 6 bar with $\Delta p = 1$ (NI/min) with Base cod. 2246.01. 0 tubo Ø8 = 550







Solenoid-Differential

2241.52.00.36. Coding:

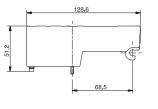
Operational characteristics			VOLTAGE
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		02 = 24 VDC PNP
Working pressure (bar)	From vacuum to 10		12 = 24 VDC NPN
Pressure range (bar)	2,5 ÷ 7		05 = 24 VAC
Temperature °C	-5 ÷ +50	SHOP	RT FUNCTION CODE "B"
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	550	Weig	ght 67 g
Responce time according to ISO 12238, activation time (ms)	20		
Responce time according to ISO 12238, deactivation time (ms)	25		

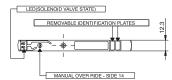
Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001



Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.01. Use $\emptyset 4=140$

Flow rate at 6 bar with $\Delta p = 1$ (NI/min) with Base cod. 2246.01. tubo Ø6 = 400Flow rate at 6 bar with ∆p=1 (NI/min) with Base cod. 2246.01. tubo Ø8= 550







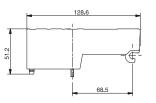
2241.52.00.35.

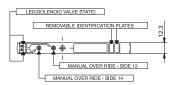
Solenoid-Solenoid		Cod	ling: 2241.52.0
Opera	ational characteristics		VOLTAGE
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		02 = 24 VDC PNP
Working pressure (bar)	From vacuum to 10		12 = 24 VDC NPN
Pressure range (bar)	2,5 ÷ 7		05 = 24 VAC
Temperature °C	-5 ÷ +50		RT FUNCTION CODE "C"
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	550	Weig	ght 67 g
Responce time according to ISO 12238, activation time (ms)	10		
Responce time according to ISO 12238, deactivation time (ms)	10		

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001



Flow rate at 6 bar with ∆p=1 (NI/min) with Base cod. 2244.01. tube Ø4= 140 Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. It ubo $\emptyset 6=400$ Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. It ubo $\emptyset 8=550$





Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice



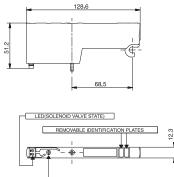
Coding: 2241.53.31.35.♥



Operational characteristics			VOLTAGE
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous		02 = 24 VDC PNP
Working pressure (bar)	From vacuum to 10		12 = 24 VDC NPN
Pressure range (bar)	2,5 ÷ 7		05 = 24 VAC
Temperature °C	-5 ÷ +50	SHOP	RT FUNCTION CODE "E"
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	400	Weig	ght 83 g
Responce time according to ISO 12238, activation time (ms)	15		
Responce time according to ISO 12238, deactivation time (ms)	20		

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001





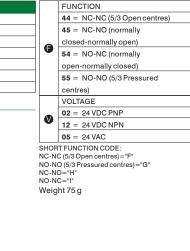
MANUAL OVER RIDE - SIDE 14

Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2244.01. Utube 04=140Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. Utube 06=300Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. Utube 08=400

Solenoid-Solenoid 2x3/2

Operati	onal characteristics	FUN
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	44 =
Working pressure (bar)	From vacuum to 10	45 =
Pressure range (bar)	≥3+(0,2xInlet pressure)	close
Temperature °C	-5 ÷ +50	54 =
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	420	oper
Responce time according to ISO 12238, activation time (ms)	15	55 =
Responce time according to ISO 12238, deactivation time (ms)	25	cent
		 +

Shifting time of pneumatic directional control valves or moving parts, logic devices were measured in accordance to ISO 12238:2001



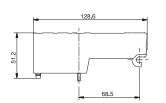
Coding:

2241.62.6.35.

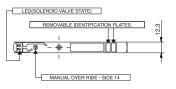


Flow rate at 6 bar with ∆p=1 (NI/min) with Base cod. 2244.01. tube Ø4= 140

Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. tubo Ø6= 360 Flow rate at 6 bar with $\Delta p=1$ (NI/min) with Base cod. 2246.01. tubo Ø8= 420



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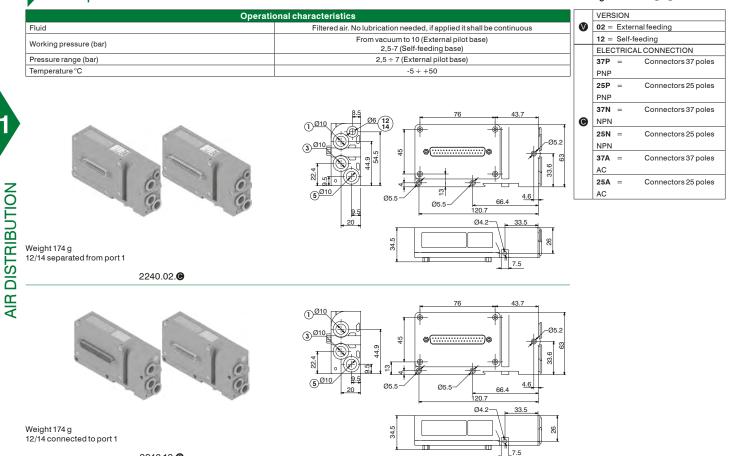
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Left Endplates





2240.12.

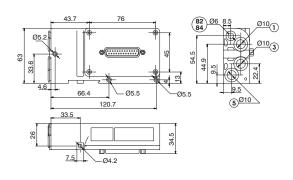
Right Endplates

Closing plate

Operational characteristics			ELECTRIC	AL CONNECTION
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	0	00 = Elect	rical connection
Working pressure (bar)	From vacuum to 10		25P =	Connectors 25 poles
Pressure range (bar)	2,5 ÷ 7			
Temperature °C	-5 ÷ +50			



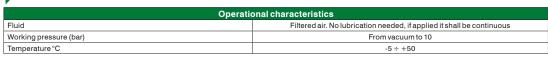
Weight 147 g PORT 82/84= DO NOT PRESSURIZE, SOLENOID PILOTS EXHAUST



2240.00

Coding:

2240.03.





128.6 2

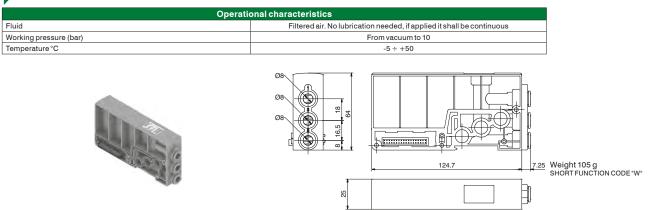
Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Coding:

Weight 30 g SHORT FUNCTION CODE "T"



Intermediate Inlet/Exhaust module



Operational characteristics

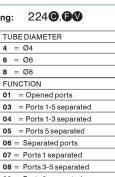
Modular base (2 places)

Fluid

Working pressure (bar)

Temperature °C

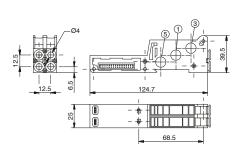
Coding:	224 0.6 0





2244.**GV**

Weight 75 g SHORT FUNCTION CODE "3" (Monostable) Opened ports SHORT FUNCTION CODE "33" (Monostable) Ports 1-5 separated SHORT FUNCTION CODE "34" (Monostable) Ports 1-3 separated SHORT FUNCTION CODE "35" (Monostable) Port 5 separated SHORT FUNCTION CODE "36" (Monostable) Port 1 separated ports SHORT FUNCTION CODE "37" (Monostable) Port 1 separated SHORT FUNCTION CODE "37" (Monostable) Ports 3-5 separated SHORT FUNCTION CODE "39" (Monostable) Port 3 separated



Filtered air. No lubrication needed, if applied it shall be continuous

From vacuum to 10

-5 ÷ +50

SHORT FUNCTION CODE "4" (Bistable) Opened ports SHORT FUNCTION CODE "43" (Bistable) Ports 1-5 separated SHORT FUNCTION CODE "44" (Bistable) Ports 1-3 separated SHORT FUNCTION CODE "45" (Bistable) Port 5 separated SHORT FUNCTION CODE "46" (Bistable) Separated ports SHORT FUNCTION CODE "47" (Bistable) Port 1 separated SHORT FUNCTION CODE "48" (Bistable) Ports 3-5 separated SHORT FUNCTION CODE "49" (Bistable) Port 3 separated



2246.60

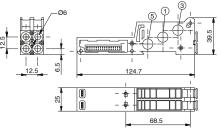
Weight 75 g

SHORT FUNCTION CODE "5" (Monostable) Opened ports SHORT FUNCTION CODE "53" (Monostable) Ports 1-5 separated SHORT FUNCTION CODE "54" (Monostable) Ports 1-3 separated SHORT FUNCTION CODE "55" (Monostable) Port 5 separated SHORT FUNCTION CODE "55" (Monostable) Separated ports SHORT FUNCTION CODE "55" (Monostable) Port 1 separated SHORT FUNCTION CODE "58" (Monostable) Ports 3-5 separated SHORT FUNCTION CODE "59" (Monostable) Port 3 separated

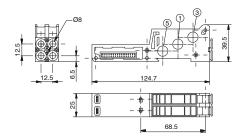


2248.**G**Ø

Weight 75 g SHORT FUNCTION CODE "7" (Monostable) Opened ports SHORT FUNCTION CODE "73" (Monostable) Ports 1-5 separated SHORT FUNCTION CODE "74" (Monostable) Ports 1-3 separated SHORT FUNCTION CODE "74" (Monostable) Ports 5-separated SHORT FUNCTION CODE "75" (Monostable) Separated ports SHORT FUNCTION CODE "77" (Monostable) Port 1 separated SHORT FUNCTION CODE "78" (Monostable) Ports 3-5 separated SHORT FUNCTION CODE "79" (Monostable) Port 3 separated



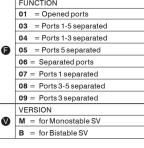
SHORT FUNCTION CODE "6" (Bistable) Opened ports SHORT FUNCTION CODE "63" (Bistable) Ports 1-5 separated SHORT FUNCTION CODE "64" (Bistable) Ports 1-3 separated SHORT FUNCTION CODE "65" (Bistable) Port 5 separated SHORT FUNCTION CODE "66" (Bistable) Separated ports SHORT FUNCTION CODE "67" (Bistable) Port 1 separated SHORT FUNCTION CODE "68" (Bistable) Ports 3-5 separated SHORT FUNCTION CODE "69" (Bistable) Port 3 separated



SHORT FUNCTION CODE "8" (Bistable) Opened ports SHORT FUNCTION CODE "83" (Bistable) Ports 1-5 separated SHORT FUNCTION CODE "84" (Bistable) Ports 1-3 separated SHORT FUNCTION CODE "84" (Bistable) Port 5 separated SHORT FUNCTION CODE "85" (Bistable) Port 5 separated SHORT FUNCTION CODE "86" (Bistable) Separated ports SHORT FUNCTION CODE "87" (Bistable) Port 1 separated SHORT FUNCTION CODE "88" (Bistable) Ports 3-5 separated SHORT FUNCTION CODE "89" (Bistable) Port 3 separated

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TUBE DIAMETER 4 = Ø4 C **6** = Ø6





Polyethylene Silencer Series SPL-R		PLR.	Diaphragm plug		Coding: 2230.17
	TUBE DIAME	TER			
	6 = 6 mm 10 = 10 mm				
T			Ú		Weight 6,5 g
Tie-rod M3				Cod	ing: 2240.KD.00
The Kit includes 6 pieces		4			
					ing: 2240.KT. @
Tie-rod M3		5	L=41mm+(N. pos. x 12,5mm)		N. POSITIONS 02 = Nr. 2 Positions 04 = Nr. 4 Positions 06 = Nr. 6 Positions 08 = Nr. 8 Positions 10 = Nr. 10 Positions 12 = Nr. 12 Positions 14 = Nr. 14 Positions 16 = Nr. 16 Positions 18 = Nr. 18 Positions 20 = Nr. 20 Positions 22 = Nr. 22 Positions 24 = Nr. 24 Positions 28 = Nr. 26 Positions 29 = Nr. 20 Positions 21 = Nr. 28 Positions 22 = Nr. 30 Positions 30 = Nr. 30 Positions 32 = Nr. 32 Positions
Cable complete with connector, 25 Pole	s IP65			Cod	CABLE LENGTH
		~		•	03 = 3 meters 05 = 5 meters 10 = 10 meters FUNCTION 31 = Closed centres
		P		6	31 = Closed centres 32 = Open centres 33 = Pressured centres
Cable complete with connector, 37 Pole	s IP65			Cod	ing: 2400.37. () .()
	1			•	CABLE LENGTH 03 = 3 meters 05 = 5 meters 10 = 10 meters FUNCTION
				9	31 = Closed centres 32 = Open centres 33 = Pressured centres
Cable complete with connector, 25 Pole	s IP65			Cod	ing: 2400.25. 0 .25
				•	CABLE LENGTH 03 = 3 meters
		\geq			05 = 5 meters 10 = 10 meters



Using the 2240.03.25P output terminal it is possible to make any electrical signals not used by valves available on a 25 sub-D female connector at the right end of the manifold. It is possible to then join a multi-core cable to link to the next manifold, or connect directly to one or two I/O modules.

The I/O modules can accept input or output signals, depending upon what is connected.



Please note: If the manifold is connected by a multi-core connection, each connection can be used as either an input or an output, while if the manifold is connected to a serial node the connections can only be used as an output.

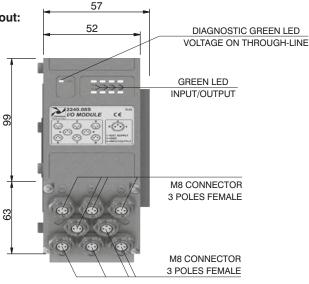
It is possible to connect the manifold to up to two I/O modules.

Each I/O module includes 8 diagnostic LEDs which indicate the presence of an Input / Output signal for each connector.



Please note: For an LED to function, a signal of at least +15VDC must be present on pin 4 of the connector. If this signal is lower, the LED will not light, this does not compromise the normal Input/Output function of the unit.

Overall dimensions and I/O layout:



Ordering code

2240.08S

PIN	DESCRIPTION
1	+24 VDC
4	INPUT/OUTPUT
3	GND

Input features:

Each connection can accept either two wire (switches, magnetic switches, pressure switches, etc.) or three wire connections (photocells, electronic end of stroke sensors, etc.) if +24VDC is required on at Pin 1 of each connector, it is possible to provide this via the through-line pin of the multi-pole connector.

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I.E:

Pin 25 of the 25 pin multi-pole connector (code 2240.02.25P or 2240.12.25P)

Pin 36-37 of the 37 pin multi-pole connector (code 2240.02.37P or 2240.12.37P)

General characteristics

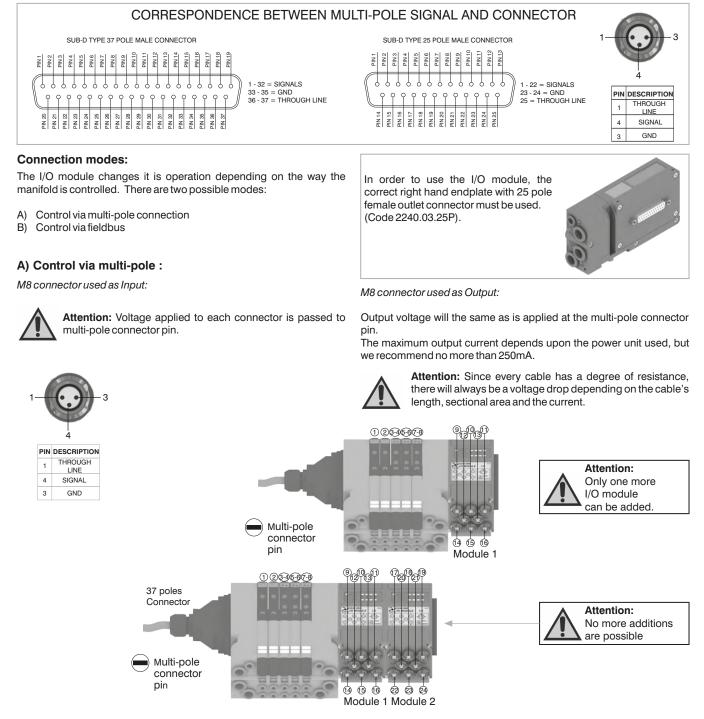
Output features:



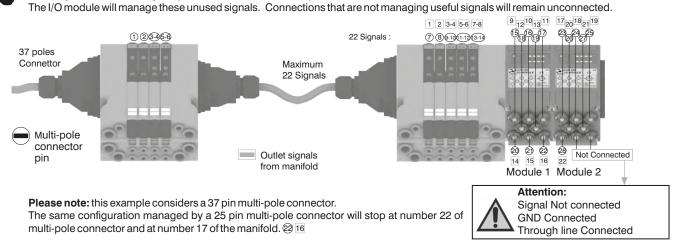
Attention: The output connections are not protected against short-circuit. Please pay attention when wiring (avoid Pin 4 being connected to Pin 3 or Pin 1).

Model	2240.08S
Case	Reinforced technopolymer
I/O Connector	M8 connector 3 poles female (IEC 60947-5-2)
PIN 1 voltage	by the user
(connector used as Input)	
PIN 4 voltage diagnosis	Green Led
Node consumption (Outlets excluded)	7mA per each LED with 24 VDC signal
Outlets voltage	+23,3 VDC (serial) /by the user (multipolar)
Input voltage	Depend by the using
Maximum outlet current	100 mA (serial) / 400 mA (multipolar)
Maximum Input/Output	8 per module
Multiconnector max. Current	100 mA
Connections to manifold	Direct connection to 25 poles connector
Maximum n. of moduls	2
Protection degree	IP65 when assembled
Ambient temperature	from -0° to +50° C



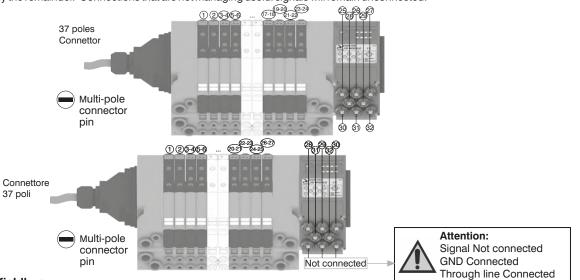


Attention : Optyma 32-S solenoid valve manifolds permit up to 22 electrical signals that are not used by manifolds to be made available: • these signals can be managed by another manifold and / or by I/O modules.





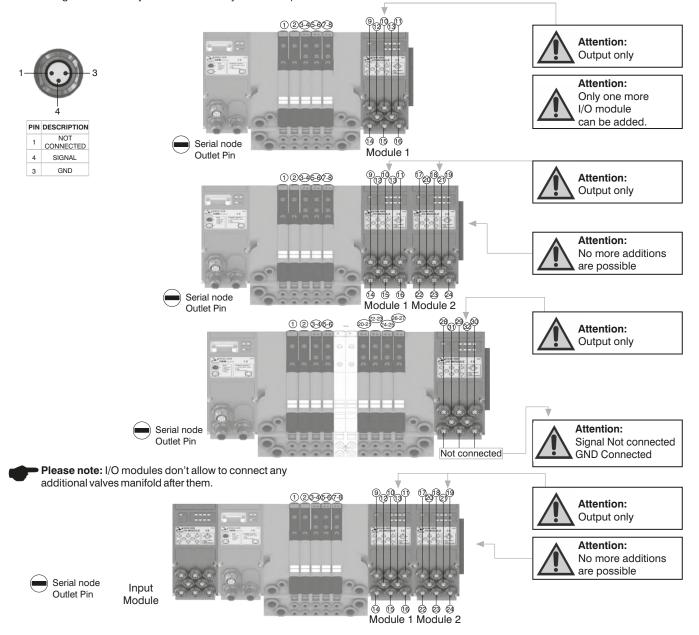
Please note: Optyma 32-S solenoid valve manifolds manage up to 32 signals. If the manifold uses more than 24 signals the I/O module will manage only the remainder. Connections that are not managing useful signals will remain unconnected.



B) Control via fieldbus:

With this kind of control the I/O module can only be used as an output. Pin 1 of each connector is not connected. The output voltage will be 0.7V lower than that applied to Pin 4 of the connector.

The maximum output current for each output is 100mA. Te correspondence between control byte and each single output depends on how many electrical signals are used by the manifold and by the relative position of the I/O module.





Electrical connection

The electrical connection is made using a 37 pin connector and can manage up to 32 electrical signals. Alternatively a 25 pin connector can be used which is suitable for up to 22 electrical signals. The distributions of the electrical signals between sub-bases achieved thanks to a dedicated electrical connector positioned in each sun-base which diverts the signals needed to operate the solenoid pilots of the valve mounted on the sub-base and passing unused signals forward to the next base.

The Optyma-S sub-bases are designed to carry two valves and are available in the following configurations:

Sub-base configurations	Signals used for the single position	Total number of used signal
Sub-base for 2	2 signals used for the first position	
bistable valves	2 signals used for the second position	4
Sub-base for 2	1 signal used for the first position	2
monostable valves	1 signal used for the second position	2

Sub-base for 2 bistable valves

On the sub base for 2 bistable valves the first electrical signal is used to actuate the solenoid pilot on side 14 of the first position, the second signal is used to actuate the solenoid pilot on side 12 of the first position. Each sub base uses 4 electric signals. The same layout applies to the following position therefore the third signal is used to actuate the solenoid pilot on side 14 of the second position and the fourth signal is used to actuate the solenoid pilot on side 12 of the second position. The remaining signals are transferred downstream.

On a bistable sub base it is possible to mount both bistable or monostable valves (in the second case 1 electrical signal for each valve is wasted). This solutions enables the user to change the manifold layout without the need to re-configure the output correspondence on the PLC. The use of bistable sub-bases reduces the maximum number of valves that can be mounted on the manifold: If the 37 pole connector is used the maximum number of valves is 16 lf the 25 pole connector is used the maximum number of valves is 10.

Sub-base for 2 monostable valves

On the sub base for 2 monostable valves the first electrical signal is used to actuate the solenoid pilot on side 14 of the first position, the second signal is used to actuate the solenoid pilot on side 12 of the second position. Each sub base uses 2 electric signals. The remaining signals are transferred downstream. On a monostable sub base it is possible to mount only monostable valves (shoud a bistable valve be mounted on a monostable sub base it will not be possible to actuate the solenoid pilot on side 12). This solutions enables the user to maximise the manifold lay out using all the electrical signals available.

If the 37 pole connector is used the maximum number of valves is 32 If the 25 pole connector is used the maximum number of valves is 22



Note:

Monostable valves, which are fitted with only one solenoid pilot can be mounted on both monostable or bistable sub bases.

Bistable valves ,5/3; 2x3/2;2x2/2, which are fitted with 2 solenoid pilots and therefore always use two electrical signals must always be mounted on bistable subbases.

Additional exhaust and air supply modules:

The Additional exhaust and air supply module is fitted with a dedicated electrical connector which does not use any electric signal but simply carries forward all signals which have not been used by the valves mounted before it. This enables its use in any position of the manifold.



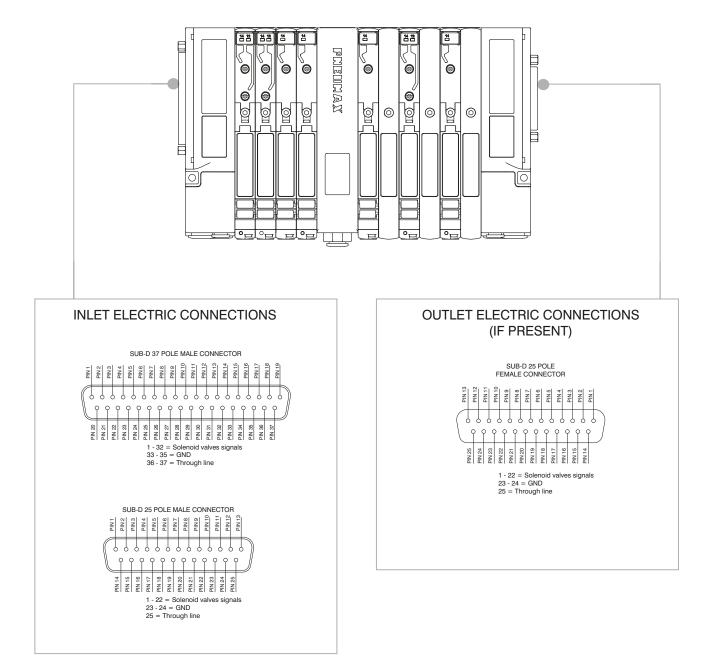
Unused electrical signals

The electrical signals which have not been used in the manifold can be made available by using the end plate fitted with the 25 pole connector.

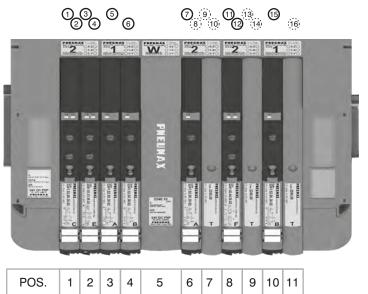
The number of electric signals available depends on the type of connector mounted on the inlet plate and on the number of signals used in the manifold:

37 pole Inlet connector : N. of outputs= 32 – used signals (max 22) 25 pole Inlet connector : N. of outputs= 22 – used signals

Here are some examples of possible configurations and the corresponding pin layout both on the inlet and end plate :

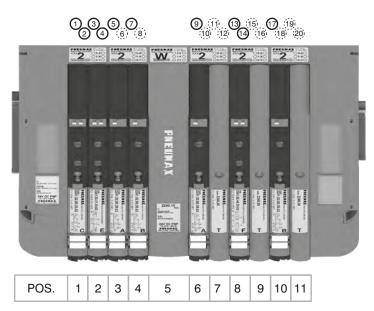






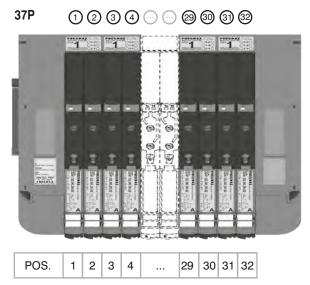
PIN 1 = PILOT 14 SV POS.1
PIN 2 = PILOT 12 SV POS.1
PIN 3 = PILOT 14 SV POS.2
PIN 4 = PILOT 12 SV POS.2
PIN 5 = PILOT 14 SV POS.3
PIN 6 = PILOT 14 SV POS.4
PIN 7 = PILOT 14 SV POS.6
PIN 8 = NOT CONNECTED
PIN 9 = NOT CONNECTED
PIN 10 = NOT CONNECTED
PIN 11 = PILOT 14 SV POS.8
PIN 12 = PILOT 12 SV POS.8
PIN 13 = NOT CONNECTED
PIN 14 = NOT CONNECTED
PIN 15 = PILOT 14 SV POS.10
PIN 16 = NOT CONNECTED

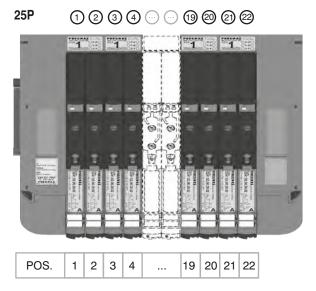
37 PIN Connector correspondence for manifold mounted on bases for bistable valves



PIN 1	_		т 1/	ev/	POS.	1
PIN 2					POS.	-
PIN 3					POS.	_
PIN 4	=	PILO	T 12	SV	POS.	2
PIN 5	=	PILO	T 14	SV	POS.	3
PIN 6	=	NOT	CON	INE	CTED)
PIN 7	=	PILO	T 14	SV	POS.4	4
PIN 8	=	NOT	CON	INE	CTED)
PIN 9	=	PILO	T 14	SV	POS.	6
PIN 10) =	NOT	CON	INE	CTED)
PIN 1	1 =	NOT	CON	INE	CTED)
PIN 12	2 =	NOT	CON	INE	CTED)
PIN 13	3 =	PILO	T 14	SV	POS.	8
PIN 14	4 =	PILO	T 12	SV	POS.	8
PIN 1	5 =	NOT	CON	INE	CTED)
PIN 16	3 =	NOT	CON	INE	CTED)
PIN 17	7 =	PILO	T 14	SV	POS.	10
PIN 18	3 =	NOT	CON	INE	CTED)
PIN 19	9 =	NOT	CON	INE	CTED)
PIN 20) =	NOT	CON	INE	CTED)

37 PIN Connector correspondence for manifold for 32 position manifold with monostable valves on double bases

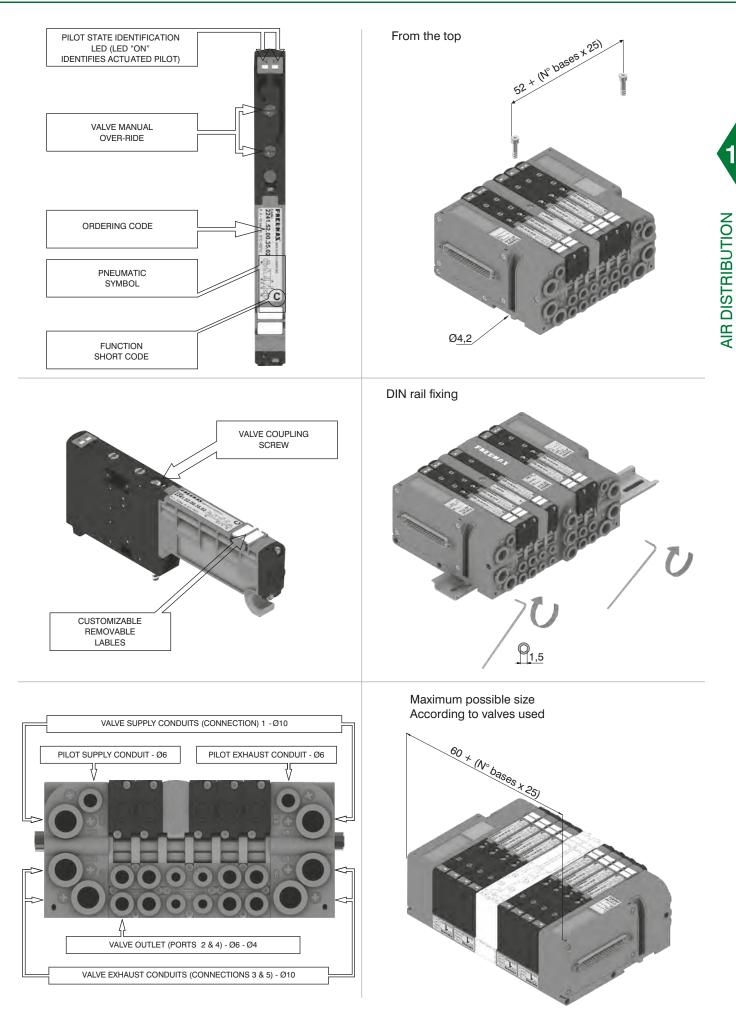




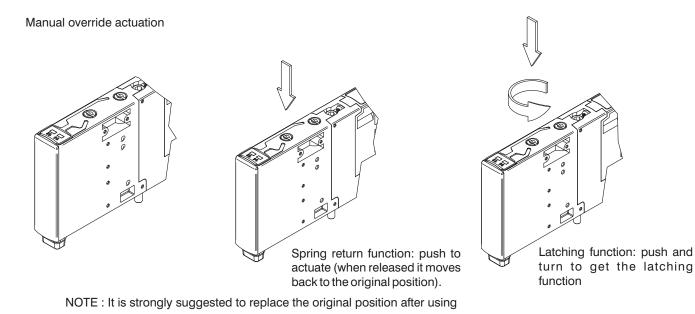
Solenoid valves manifold Series 2200 "OPTYMA-S"



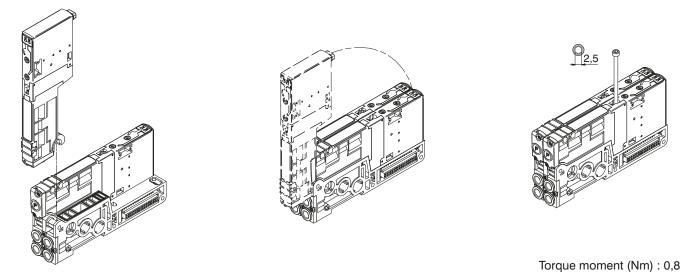
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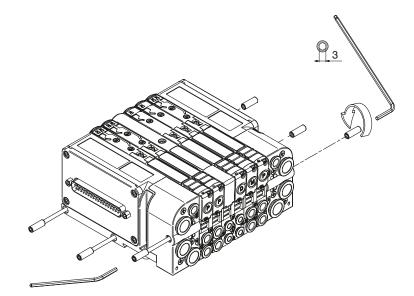




Valve Installation



Manifold assembly

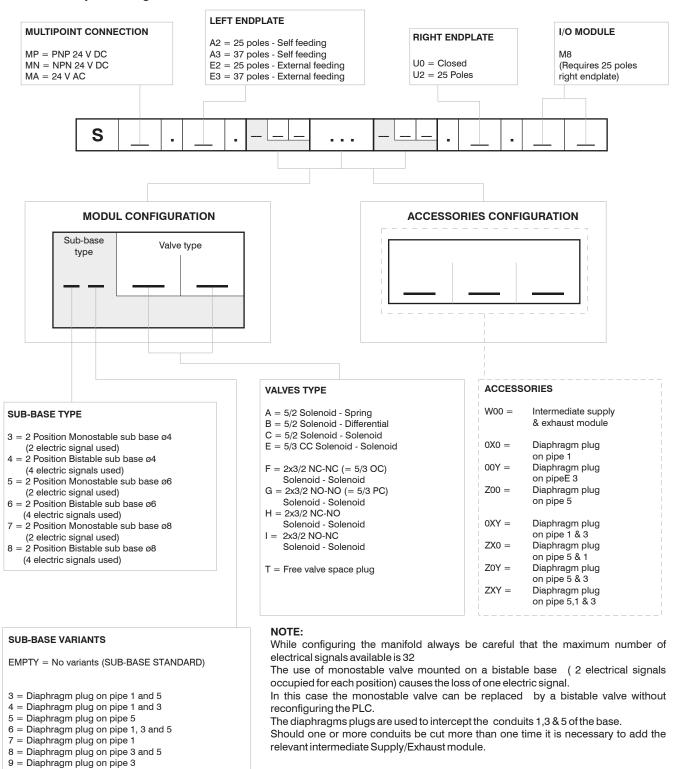


Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Min. torque moment : 2 Nm Max. torque moment: 2,5 Nm



Manifold Layout configuration



Series 2200 OPTYMA-S solenoid valve manifolds managed by multipoint connection are "well tried components"

Ψ	Well-tried component	 The product is a well-tried product for a safety-related application according to ISO 13849-1. The relevant basic and well-tried safety principles according
B _{10d}	50.000.000	ISO 13849-2 for this product are fulfilled.The suitability of the product for a precise application must be verified and confirmed by the user.



CANopen[®] module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

CANopen[®] module recognizes automatically the presence of the Input modules on power on. Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaning powered the node and inputs, if present.

Connection to Bus CANopen[®] is possible via 2 M12 5P male - female circular connectors; these two are connected in parallel and according to CiA Draft Recommendation 303-1 (V. 1.3 : 30 December 2004).

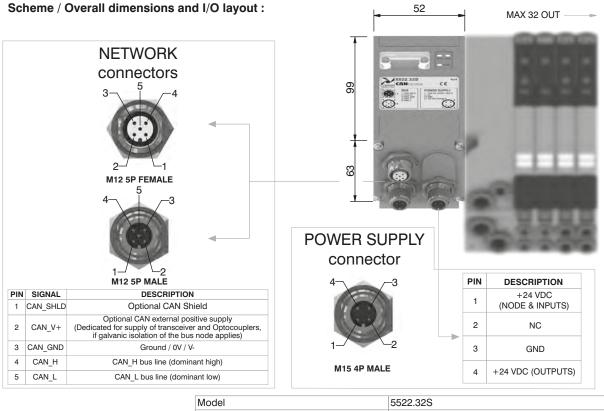
Transmission speed can be set by 3 dip-switches.

The node address can be set by 6 dip-switches using BCD numeration.

The module includes an internal terminating resistance that can be activated by a dip-switch.

Ordering code

5522.32S



	Model	5522.32S
	Specifications	CiA Draft Standard Proposal 301 V 4.10 (15 August 2006)
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	30 mA
	Power supply diagnosis	Green LED PWR
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 5P connectors male-female Type A (IEC 60947-5-2
	Baud rate	10 - 20 - 50 - 125 - 250 - 500 - 800 - 1000 Kbit/s
	Addresses, possible numbers	From 1 to 63
	Max nodes in net	64 (slave + master)
	Bus maximum recommended length	100 m at 500 Kbit/s
	Bus diagnosis	Green LED + Red LED
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C



DeviceNet module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

DeviceNet module recognizes automatically the presence of the Input modules on power on. Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaining powered the node and inputs, if present.

Connection to Bus DeviceNet is possible via 2 M12 5P male - female circular connectors; these two are connected in parallel and according to DeviceNet Specifications Volume I, release 2.0. Transmission speed can be set by 3 dip-switches.

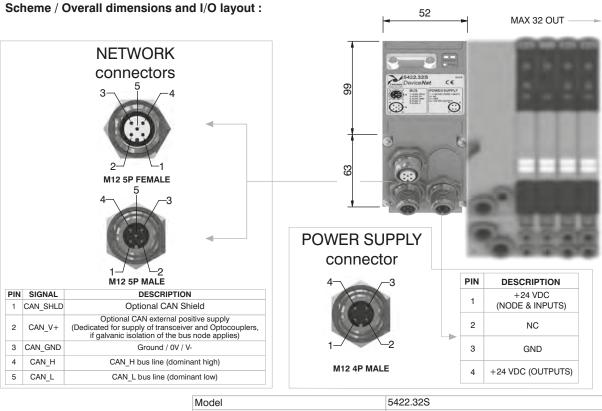
The node address can be set by 6 dip-switches using BCD numeration.

The module includes an internal terminating resistance that can be activated by a dip-switch.

Ordering code







	Model	5422.32S
	Specifications	DeviceNet Specifications Volume I, release 2.0.
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	30 mA
	Power supply diagnosis	Green LED PWR
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 5P connectors male-female Type A (IEC 60947-5-2)
	Baud rate	125 - 250 - 500 Kbit/s
	Addresses, possible numbers	From 1 to 63
	Max nodes in net	64 (slave + master)
	Bus maximum recommended length	100 m at 500 Kbit/s
	Bus diagnosis	Green LED + Red LED
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C



PROFIBUS DP module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code). The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

PROFIBUS DP module recognizes automatically the presence of the Input modules on power on. Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaning powered the node and inputs, if present.

Connection to Bus PROFIBUS DP is possible via 2 M12 type B 5P male - female circular connectors; these two are connected in parallel and according to PROFIBUS Interconnection Technology (Version 1.1 : August 2001).

The node address can be set using BCD numeration: 4 dip-switches for the units and 4 dipswitches for the tens.

The module includes an internal terminating resistance that can be activated by a dip-switch.

Ordering code

5322.32S



Sch	neme / O	verall dimensions and I/O layout :	52		1	MAX 32 OUT
NETWORK connectors		connectors				
			POWER SUPPLY connector		1	-
		M12 5P MALE	43		PIN	DESCRIPTION
PIN	SIGNAL	DESCRIPTION			-	+24 VDC
1	VP	Power supply plus, (P5V)	18		1	(NODE & INPUTS)
2	A-line	Receive / Transmit data -N, A-line			2	NC
3	DGND	Data Ground (reference potential to VP)	1-/2	-	3	GND
4	B-line	Receive / Transmit data -plus, B-line	M12 4P MALE			
5	SHIELD	Shield or PE	WIZ 4F WALE		4	+24 VDC (OUTPUTS)
		Model	5322.32S			

	Model	5322.32S
	Specifications	PROFIBUS DP
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	50 mA
	Power supply diagnosis	Green LED PWR
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
Outputs	Maximum output number	32
Network	Max output simultaneously actuated	32
Network	Network connectors	2 M12 5P male-female connectors Type B
	Baud rate	9,6 - 19,2 - 93,75 - 187,5 - 500 - 1500 - 3000 - 6000 - 12000 Kbit/s
	Addresses, possible numbers	From 1 to 99
	Max nodes in net	100 (slave + master)
	Bus maximum recommended length	100 m at 12 Mbit/s - 1200 m at 9,6 Kbit/s
	Bus diagnosis	Green LED + Red LED
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C

Technical characteristics



General:

EtherCAT® module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

The EtherCAT[®] module, regardless the number of Input module connected, reports to have connected 4 Input modules.

Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M124P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaning powered the node and inputs, if present.

Connection to Bus EtherCAT[®] is possible via 2 M12 4P type D female circular connectors. These two connectors lead the signal to two different communication ports, so they are not connected in parallel.

The node address is assigned during configuration.

Note: 5700 series has a different configuration file from series 5600.

Ordering code 5722.32S.EC

MAX 32 OUT



Scheme / Overall dimensions and I/O layout :

NETWORK connectors		Connectors				
			POWER SUPPLY connector	13		
		M12 4P FEMALE	4	PIN	DESCRIPTION	
				1	+24 VDC (NODE & INPUTS)	
PIN	SIGNAL	DESCRIPTION	(Ser)	2	NC	
1	TX+	Ethernet Transmit High		->		
2	RX+	Ethernet Receive High	1-/ -2	3	GND	
3	TX-	Ethernet Transmit Low	M12 4P MALE		+24 VDC (OUTPUTS)	
4	RX-	Ethernet Receive Low		4	T24 VDC (001P013)	

	Model	5722.32S.EC
	Specifications	EtherCAT [®] Specifications ETG.1000 series
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	400 mA
	Power supply diagnosis	Green LED PWR / Green LED OUT
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 4P female connectors Type D (IEC 61076-2-101)
	Baud rate	100 Mbit/s
	Addresses, possible numbers	From 1 to 65535
	Max nodes in net	65536 (Master + Slave)
	Maximum distance between 2 nodes	100 m
	Bus diagnosis	1 green and 1 red LED for status + 2 LEDs for link & act
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C



PROFINET IO RT module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

The PROFINET IO RT module, regardless the number of Input module connected, reports to have connected 8 Input modules.

Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaning powered the node and inputs, if present.

Connection to Bus PROFINET IO RT is possible via 2 M12 4P type D female circular connectors. These two connectors lead the signal to two different communication ports, so they are not connected in parallel.

The node address is assigned during configuration.

Ordering code



MAX 32 OUT

NETWORK

Scheme / Overall dimensions and I/O layout :

connectors		x	-
2 1 M12 4P FEMALE		6	
	POWER SUPPLY connector	00	
M12 4P FEMALE	43	PIN	DESCRIPTION
		1	+24 VDC (NODE & INPUTS)
DESCRIPTION	(Ser)	2	NC
Ethernet Transmit High			
Ethernet Receive High	1-2	3	GND
Ethernet Transmit Low	M12 4P MALE	4	+24 VDC (OUTPUTS)
Ethernet Receive Low		7	

	Model	5722.32S.PN
	Specifications	PROFINET IO RT/IRT
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	400 mA
	Power supply diagnosis	Green LED PWR / Green LED OUT
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 4P female connectors Type D (IEC 61076-2-101)
	Baud rate	100 Mbit/s
	Addresses, possible numbers	As an IP address
	Max nodes in net	As an Ethernet Network
	Maximum distance between 2 nodes	100 m
	Bus diagnosis	1 green and 1 red LED for status + 4 LEDs for link & activit
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C
	I	

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

SIGNAL

TX+

RX+

Technical characteristics

PIN

2

3 TX-

4 RX-

52



General:

Technical characteristics

EtherNet/IP module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

The EtherNet/IP module, regardless the number of Input module connected, reports to have connected 8 Input modules.

Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaining powered the node and inputs, if present.

Connection to Bus EtherNet/IP is possible via 2 M12 4P type D female circular connectors. These two connectors lead the signal to two different communication ports, so they are not connected in parallel.

The node address is assigned during configuration.



MAX 32 OUT

Ordering code

Scheme / Overall dimensions and I/O layout :

		NETWORK connectors			
		3 2 2 1 M12 4P FEMALE	POWER SUPPLY connector	PIN 1	DESCRIPTION +24 VDC (NODE & INPLITS)
PIN	SIGNAL			1	+24 VDC (NODE & INPUTS)
PIN 1	SIGNAL TX+	2 2 M12 4P FEMALE			+24 VDC
		2 2 M12 4P FEMALE DESCRIPTION		1	+24 VDC (NODE & INPUTS)
1	TX+	DESCRIPTION Ethernet Transmit High		1	+24 VDC (NODE & INPUTS) NC

	Model	5722.32S.EI
	Specifications	The EtherNet/IP Specification
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	400 mA
	Power supply diagnosis	Green LED PWR / Green LED OUT
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 4P female connectors Type D (IEC 61076-2-101)
	Baud rate	100 Mbit/s
	Addresses, possible numbers	As an IP address
	Max nodes in net	As an Ethernet Network
	Maximum distance between 2 nodes	100 m
	Bus diagnosis	1 green and 1 red LED for status + 4 LEDs for link & activi
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C



Powerlink module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

The Powerlink module, regardless the number of Input module connected, reports to have connected 8 Input modules.

Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaining powered the node and inputs, if present.

Connection to Bus Powerlink is possible via 2 M12 4P type D female circular connectors. These two connectors lead the signal to two different communication ports, so they are not connected in parallel.

The node address is assigned during configuration.

Ordering code





MAX 32 OUT

Scheme / Overall dimensions and I/O layout :

NETWORK connectors		Connectors				
			connector			
		M12 4P FEMALE	4	PIN	DESCRIPTION	
				1	+24 VDC (NODE & INPUTS)	
PIN	SIGNAL	DESCRIPTION	(Sector	2	NC	
1	TX+	Ethernet Transmit High		-		
2	RX+	Ethernet Receive High	1-/-2	3	GND	
2		Ethernet Transmit Low				
2 3 4	TX- BX-	Ethernet Transmit Low Ethernet Receive Low	M12 4P MALE	4	+24 VDC (OUTPUTS)	

52

	Model	5722.32S.PL
	Specifications	Ethernet POWERLINK Communication Profile Specifications
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	400 mA
	Power supply diagnosis	Green LED PWR / Green LED OUT
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 4P female connectors Type D (IEC 61076-2-101)
	Baud rate	100 Mbit/s
	Addresses, possible numbers	239
	Max nodes in net	240
	Maximum distance between 2 nodes	100 m
	Bus diagnosis	1 green and 1 red LED for status + 2 LEDs for link & activity
	Configuration file	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C

52



General:

Technical characteristics

Modbus/TCP module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

The Modbus/TCP module, regardless the number of Input module connected, reports to have connected 8 Input modules.

Regardless of the number of Input modules connected, the managable solenoid valves are 32. Node power supply is made by a M12 4P male circular connector.

The separation between node 24 VDC Power supply and outputs 24 VDC allows to switch off the outputs maintaining powered the node and inputs, if present.

Connection to Bus Modbus/TCP is possible via 2 M12 4P type D female circular connectors. These two connectors lead the signal to two different communication ports, so they are not connected in parallel.

The node address is assigned during configuration.

Ordering code

5722.32S.MT



MAX 32 OUT

Scheme / Overall dimensions and I/O layout :

		NETWORK connectors	B B B B B B B B B B B B B B B B B B B				
					0 (0)		
		2 M12 4P FEMALE			PIN	DESCRIPTION	
					PIN 1	DESCRIPTION +24 VDC (NODE & INPUTS)	
PIN					1	+24 VDC	
1	TX+	2 M12 4P FEMALE				+24 VDC (NODE & INPUTS) NC	
1 2	TX+ RX+	DESCRIPTION Ethernet Transmit High Ethernet Receive High			1	+24 VDC (NODE & INPUTS)	
1	TX+	DESCRIPTION Ethernet Transmit High		tor	1	+24 VDC (NODE & INPUTS) NC	

	Model	5722.32S.MT
	Specifications	MODBUS Application Protocol Specification V1.1a, June 4, 2004
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	400 mA
	Power supply diagnosis	Green LED PWR / Green LED OUT
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	2 M12 4P female connectors Type D (IEC 61076-2-101)
	Baud rate	100 Mbit/s
	Addresses, possible numbers	248
	Max nodes in net	248
	Maximum distance between 2 nodes	100 m
	Bus diagnosis	1 green and 1 red LED for status + 2 LEDs for link & activity
	Configuration file	Modbus/TCP nodes don't require configuration file
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C



IO-Link module is directly integrated on Optyma-S solenoid valves manifold via a 37 poles connector, normally used for multipolar cable connection.

Optyma-S solenoid valves connected to node must be PNP equivalent (final 02 in ordering code).

The node can be easily installed also on solenoid valves manifold already mounted on equipment.

Module can manage up to 32 solenoid valves, and, in the same time, a max number of 4 Input modules 5222.08S.

Regardless of the number of Input modules connected, the managable solenoid valves are 32. Valve power supply will be provided through an external M12, 5 poles, A type connector, directly through the communication connector for Class B port option.

IO-Link module support the IO-Link communications speed COM2.

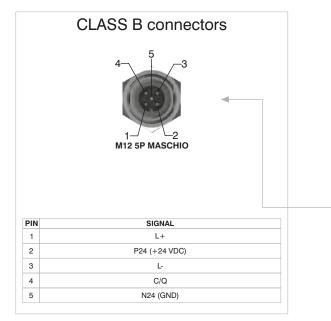
IODD configuration files will be provided by Pneumax.

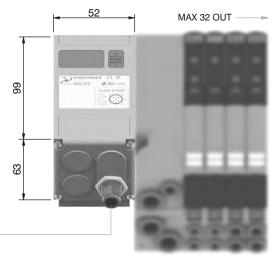






Scheme / Overall dimensions and I/O layout :





	Specifications	IO-Link Specification v1.1
	Case	Reinforced technopolymer
Outputs	PNP equvalent outputs	+24 VDC +/- 10%
·	Maximum current for each output	100 mA
	Maximum output number	32
	Max output simultaneously actuated	32
Network	Network connectors	Class B ports
	Comunication speed	COM 2
	Maximum distance from Master	20 m
	Bus diagnosis	1 green and 1 red LED for status
	Configuration file IODD	Available from our web site: http://www.pneumaxspa.com
	IP protection grade	IP65 when assembled
	Temperature range	From 0° to +50° C

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Technical characteristics



Modules have 8 connectors M8 3P female.

The Inputs are PNP equivalent 24 VDC $\pm 10\%$.

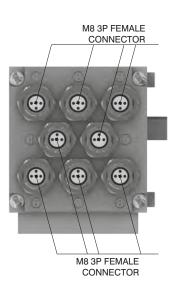
To each connector it is possible to plug both 2 wires Inputs (switches, magnetic switches pressure switches, etc) or 3 wires Inputs (proximity, photocells, electronic sensors, etc). The maximum current available for all 8 Inputs is 300 mA.

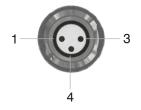
Each module includes a 300 mA self-mending fuse. If a short circuit or a overcharge (overall current >300mA) occur the safety device acts cutting the 24 VDC power supply to all M8 connectors on the module and switching off the green LED PWR. Any other Input module connected to the node will remain powered and will function correctly.

Once the cause of the fault disappears the green LED PWR lights up indicating the ON state and the node will re-start to operate.

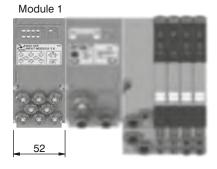
The maximum number of Input modules supported is 4.

Scheme / Overall dimensions and I/O layout :





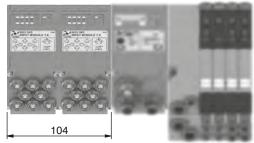
PIN	DESCRIPTION
1	+24 VDC
4	INPUT
3	GND



Ordering code

5222.08S

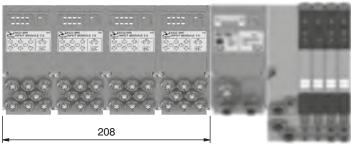
Module 2 Module 1



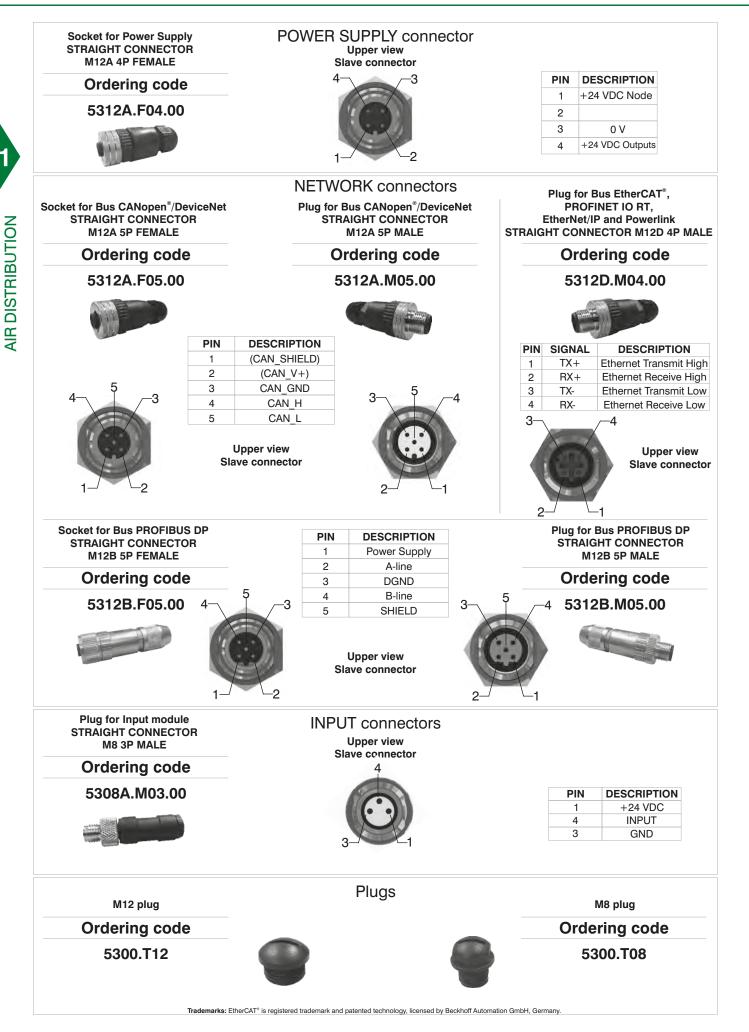
Module 3 Module 2 Module 1



Module 4 Module 3 Module 2 Module 1

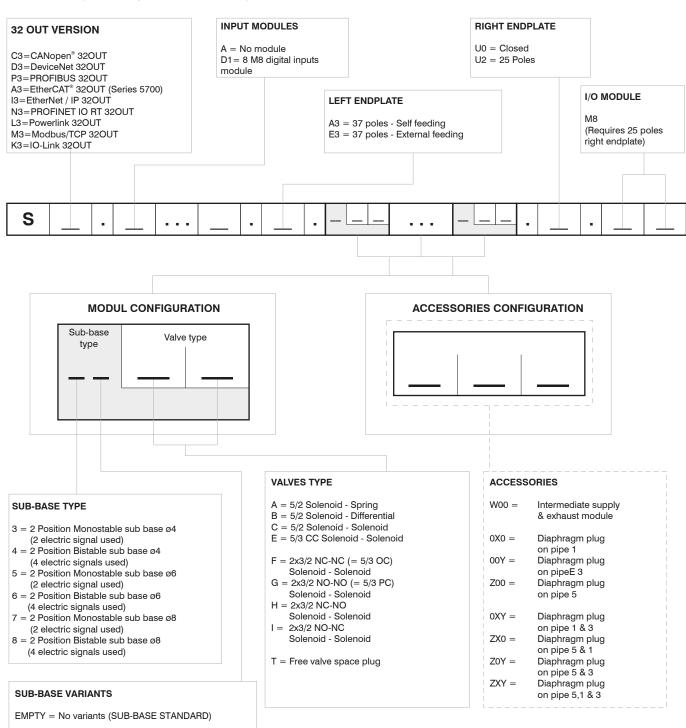








Manifold Layout configuration with serial systems



- 3 = Diaphragm plug on pipe 1 and 5
- 4 = Diaphragm plug on pipe 1 and 3 5 = Diaphragm plug on pipe 5
- 6 = Diaphragm plug on pipe 56 = Diaphragm plug on pipe 1, 3 and 5
- 7 = Diaphragm plug on pipe 1
- 8 = Diaphragm plug on pipe 3 and 5
- 9 = Diaphragm plug on pipe 3

NOTE:

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

While configuring the manifold always be careful that the maximum number of electrical signals available is 32

The use of monostable valve mounted on a bistable base (2 electrical signals occupied for each position) causes the loss of one electric signal.

In this case the monostable valve can be replaced by a bistable valve without reconfiguring the PLC.

The diaphragms plugs are used to intercept the conduits 1,3 & 5 of the base.

Should one or more conduits be cut more than one time it is necessary to add the relevant intermediate Supply/Exhaust module.