

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

Optyma-F solenoid valves connected to node must be PNP equivalent (final 02 in ordering

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 5225.08F.

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 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 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.

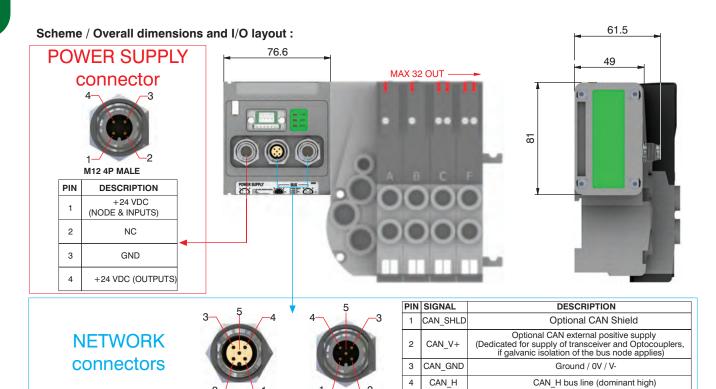
M12 5P FEMALE

## Ordering code

5525.32F



CAN\_L bus line (dominant low)



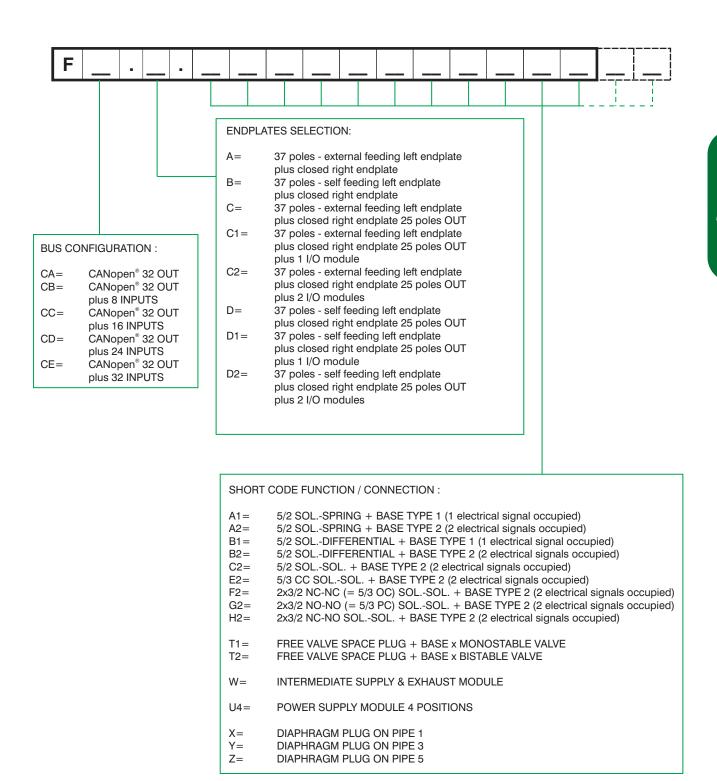
M12 5P MALE

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Model	5525.32F
Specifications	CiA Draft Standard Proposal 301 V 4.10 (15 August 2006)
Case	Reinforced technopolymer
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
PNP equivalent outputs	+24 VDC +/- 10%
Maximum current for output	100 mA
Maximum output number	32
Max output simultaneously actuated	32
Network connectors	2 M12 5P connectors male-female (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 a 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
	Specifications Case Power supply connection Power supply voltage Node consumption (without inputs) Power supply diagnosis PNP equivalent outputs Maximum current for output Maximum output number Max output simultaneously actuated Network connectors Baud rate Addresses, possible numbers Max nodes in net Bus maximum recommended length Bus diagnosis Configuration file IP protection grade

CAN\_L

Manifold layout configuration complete with CANopen® node



#### NOTE:

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 base type 2 (2 electrical signals occupied) causes the loss of one electric signal. In this case the monostable valve can be replaced by a bistable valve. The diaphragms plugs are used to intercept the conduits 1,3 & 5 of the base. If it is necessary to interrupt more than one conduit in the same time then put in line the letters which identifies the position (for exemple: regarding the 3 & 5 conduits, put the Y & Z letters).

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



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

Optyma-F solenoid valves connected to node must be PNP equivalent (final 02 in ordering

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 5225.08F.

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 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 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.

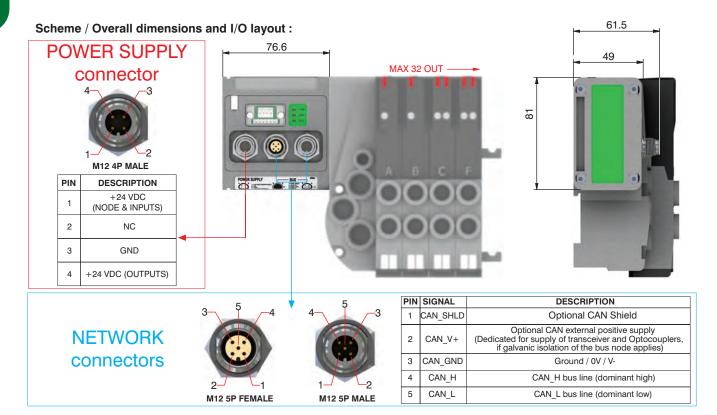
The node address can be set by 6 dip-switches using BCD numeration.

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

## Ordering code

5425.32F



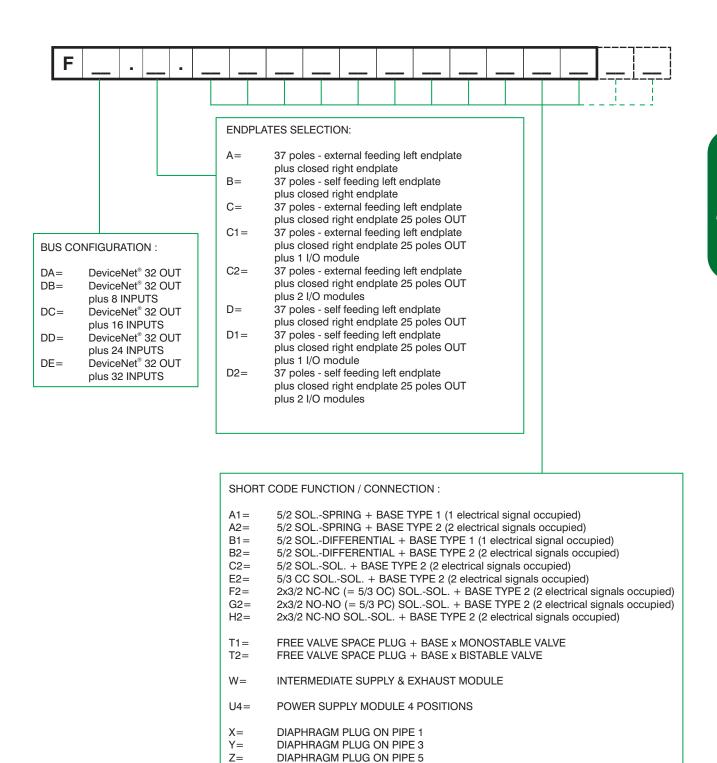


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	5425.32F
Specifications	DeviceNet® Specifications Volume I, release 2.0.
Case	Reinforced technopolymer
Power supply connection	M12 4P male connector (IEC 60947-5-2)
Power supply voltage	+24 VDC +/- 10%
Node consumption (without inputs)	30 mA
Power supply diagnosis	Green led PWR
PNP equivalent outputs	+24 VDC +/- 10%
Maximum current for output	100 mA
Maximum output number	32
Max output simultaneously actuated	32
Network connectors	2 M12 5P connectors male-female (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 a 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
	Case Power supply connection Power supply voltage Node consumption (without inputs) Power supply diagnosis PNP equivalent outputs Maximum current for output Maximum output number Max output simultaneously actuated Network connectors Baud rate Addresses, possible numbers Max nodes in net Bus maximum recommended length Bus diagnosis Configuration file IP protection grade



Manifold layout configuration complete with DeviceNet® node



#### NOTE:

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 base type 2 (2 electrical signals occupied) causes the loss of one electric signal. In this case the monostable valve can be replaced by a bistable valve. The diaphragms plugs are used to intercept the conduits 1,3 & 5 of the base. If it is necessary to interrupt more than one conduit in the same time then put in line the letters which identifies the position (for exemple : regarding the 3 & 5 conduits, put the Y & Z letters).

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



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

Optyma-F 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 5225.08F.

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 maintaining 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).

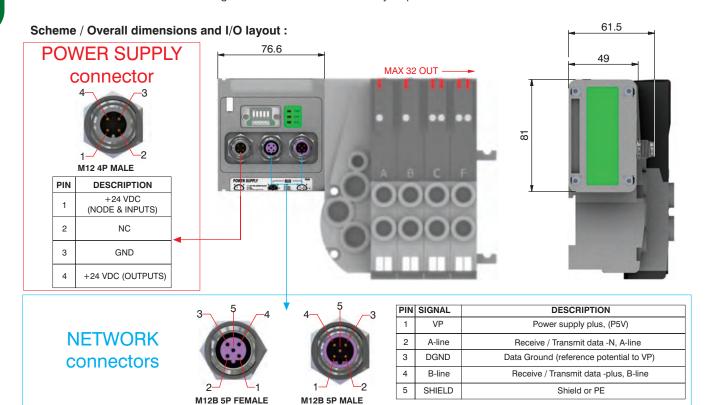
The node address can be set using BCD numeration: 4 dip-switches for the units and 4 dip-switches for the tens.

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

## **Ordering code**

5325.32F



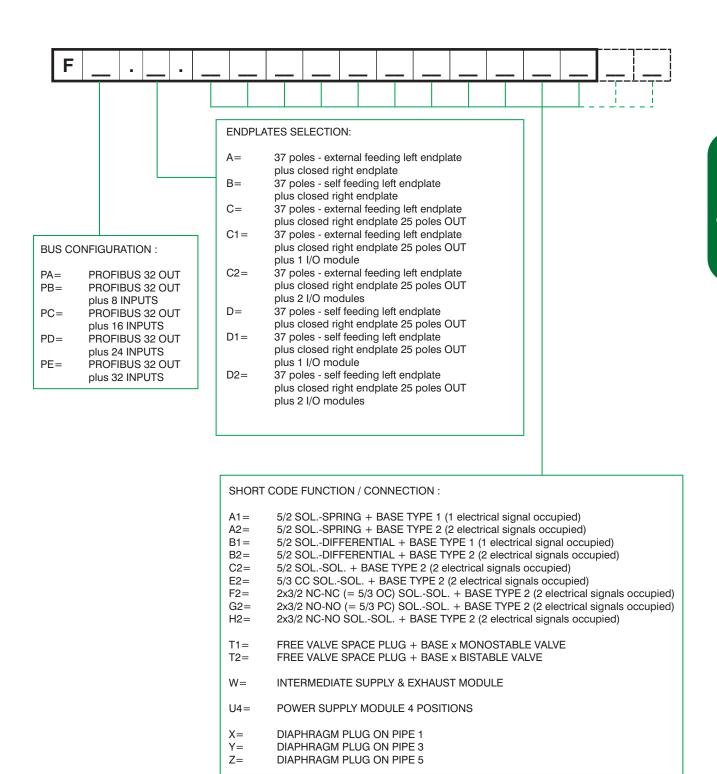


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	Model	5325.32F
	Specifications	PROFIBUS DP
	Case	Reinforced technopolymer
Power supply	Power supply connection	M12 4P male connector (IEC 60947-5-2)
	Power supply voltage	+24 VDC +/- 10%
	Node consumption (without inputs)	50 mA
	Power supply diagnosis	Green led PWR
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for output	100 mA
	Maximum output number	32
	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



Manifold layout configuration complete with PROFIBUS node



#### NOTE:

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 base type 2 (2 electrical signals occupied) causes the loss of one electric signal. In this case the monostable valve can be replaced by a bistable valve. The diaphragms plugs are used to intercept the conduits 1,3 & 5 of the base. If it is necessary to interrupt more than one conduit in the same time then put in line the letters which identifies the position (for exemple: regarding the 3 & 5 conduits, put the Y & Z letters).

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



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 200 mA.

Each module includes a 200 mA resettable fuse. If a short circuit or a overcharge (overall current >200mA) 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 light up indicating the ON state and the node will re-start to operate.

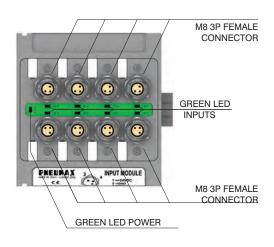
The maximum number of Input modules supported is 4.

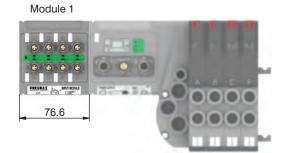
### Ordering code

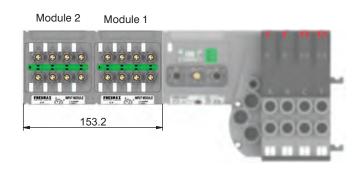
#### 5225.08F

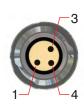


#### Scheme / Overall dimensions and I/O layout :

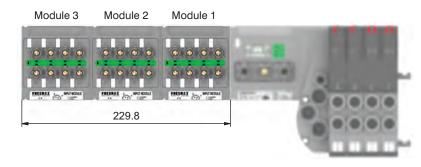


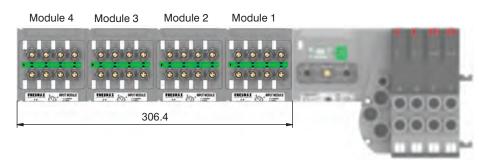






PIN	DESCRIPTION
1	+24 VDC
4	INPUT
3	GND





**Socket for Power Supply** STRAIGHT CONNECTOR M12A 4P FEMALE

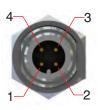
**Ordering code** 

5312A.F04.00



# POWER SUPPLY connector Upper view

Slave connector



PIN	DESCRIPTION
1	+24 VDC Node
2	
3	0 V
4	+24 VDC Outputs

Socket for Bus CANopen STRAIGHT CONNECTOR M12A 5P FEMALE

Ordering code

5312A.F05.00



**NETWORK** connectors

PIN	DESCRIPTION
1	(CAN_SHIELD)
2	(CAN_V+)
3	CAN_GND
4	CAN_H
5	CAN_L

Upper view Slave connector

Plug for Bus CANopen STRAIGHT CONNECTOR M12A 5P MALE

**Ordering code** 

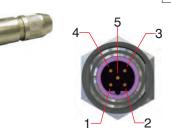
5312A.M05.00



**Socket for Bus PROFIBUS** STRAIGHT CONNECTOR M12B 5P FEMALE

Ordering code

5312B.F05.00

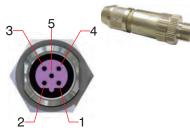


DESCRIPTION PIN Power Supply 2 A-line DGND 3 4 B-line 5 SHIELD

Plug for Bus PROFIBUS STRAIGHT CONNECTOR M12B 5P MALE

Ordering code

5312B.M05.00



Plug for Input module STRAIGHT CONNECTOR M8 3P MALE

Ordering code

5308A.M03.00



## **INPUT** connectors

Upper view Slave connector

Upper view Slave connector



PIN	DESCRIPTION
1	+24 VDC
4	INPUT
3	GND

M12 plug

**Ordering code** 

5300.T12



Plugs

M8 plug

**Ordering code** 

5300.T08

