

General:

CANopen® module is directly integrated on Enova solenoid valves manifold via a 25 poles connector, normally used for multipolar cable connection.
 Enova 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 22 solenoid valves, and, in the same time, a max number of 3 Input modules 5200.08.
 CANopen® module recognizes automatically the presence of the Input modules on power on.
 Regardless of the number of Input modules connected, the manageable solenoid valves are 22.
 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 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.

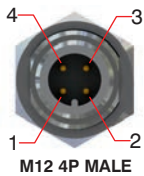
Ordering code

5523.22



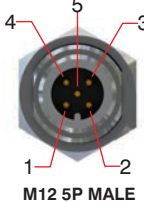
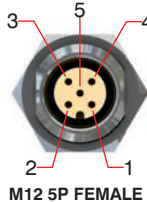
Scheme / Overall dimensions and I/O layout :

POWER SUPPLY connector

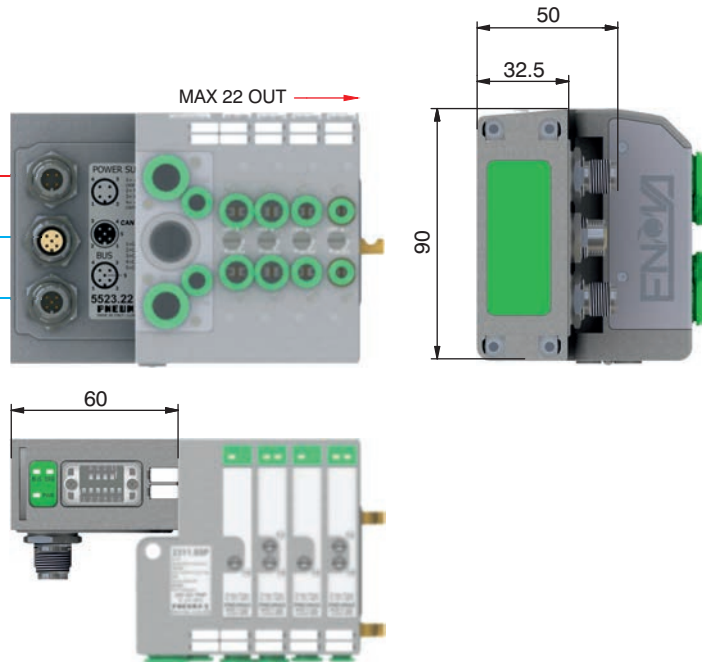


PIN	DESCRIPTION
1	+24 VDC (NODE & INPUTS)
2	NC
3	GND
4	+24 VDC (OUTPUTS)

NETWORK connectors



PIN	SIGNAL	DESCRIPTION
1	CAN_SHLD	Optional CAN Shield
2	CAN_V+	Optional CAN external positive supply (Dedicated for supply of transceiver and Optocouplers, if galvanic isolation of the bus node applies)
3	CAN_GND	Ground / 0V / V-
4	CAN_H	CAN_H bus line (dominant high)
5	CAN_L	CAN_L bus line (dominant low)

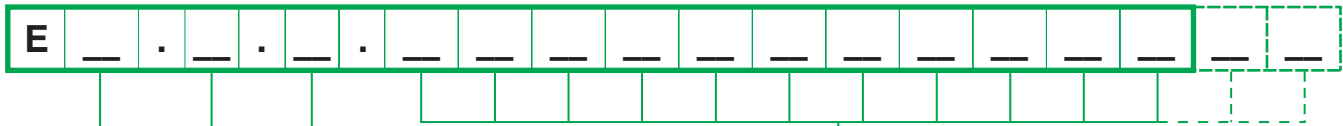


Technical characteristics

	Model	5523.22
	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)	25 mA
	Power supply diagnosis	Green led PWR
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for output	100 mA
	Maximum output number	22
	Max output simultaneously actuated	22
Network	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, possibile 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



Manifold layout configuration complete with CANopen® node



2

ACCESSORIES :
 0= none
 D= DIN bar adapter
 S= 90° Fixing bracket

ENDPLATES SELECTION :
 A= 5 ports endplated left side plus right side endplated
 B= 3 ports endplated left side plus right side endplated

BUS CONFIGURATION :
 CA= CANopen 22 OUT
 CB= CANopen 22 OUT + 8 INPUTS
 CC= CANopen 22 OUT + 16 INPUTS
 CD= CANopen 22 OUT + 24 INPUTS

SHORT CODE FUNCTION / CONNECTION:

- A4= EV 5/2 MONOST. SOL.-SPRING Ø4
- A6= EV 5/2 MONOST. SOL.-SPRING Ø6
- A8= EV 5/2 MONOST. SOL.-SPRING Ø8
- B4= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø4
- B6= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø6
- B8= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø8
- C4= EV 5/2 BISTABLE SOL.-SOL. Ø4
- C6= EV 5/2 BISTABLE SOL.-SOL. Ø6
- C8= EV 5/2 BISTABLE SOL.-SOL. Ø8
- E4= EV 5/3 CC SOL.-SOL. Ø4
- E6= EV 5/3 CC SOL.-SOL. Ø6
- E8= EV 5/3 CC SOL.-SOL. Ø8
- F4= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø4
- F6= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø6
- F8= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø8
- G4= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø4
- G6= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø6
- G8= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø8
- H4= EV 2x3/2 NC-NO SOL.-SOL. Ø4
- H6= EV 2x3/2 NC-NO SOL.-SOL. Ø6
- H8= EV 2x3/2 NC-NO SOL.-SOL. Ø8
- L4= EV 2x2/2 NC-NC SOL.-SOL. Ø4
- L6= EV 2x2/2 NC-NC SOL.-SOL. Ø6
- L8= EV 2x2/2 NC-NC SOL.-SOL. Ø8
- M4= EV 2x2/2 NO-NO SOL.-SOL. Ø4
- M6= EV 2x2/2 NO-NO SOL.-SOL. Ø6
- M8= EV 2x2/2 NO-NO SOL.-SOL. Ø8
- N4= EV 2x2/2 NC-NO SOL.-SOL. Ø4
- N6= EV 2x2/2 NC-NO SOL.-SOL. Ø6
- N8= EV 2x2/2 NC-NO SOL.-SOL. Ø8
- P4= EV 5/2 MONOST. SOL.-SPRING CEB Ø4
- P6= EV 5/2 MONOST. SOL.-SPRING CEB Ø6
- P8= EV 5/2 MONOST. SOL.-SPRING CEB Ø8
- R4= EV 5/2 MONOST. SOL.-DIFF. CEB Ø4
- R6= EV 5/2 MONOST. SOL.-DIFF. CEB Ø6
- R8= EV 5/2 MONOST. SOL.-DIFF. CEB Ø8
- T1 = 1 ELECTRIC SIGNAL THROUGH MODULE
- T2 = 2 ELECTRIC SIGNALS THROUGH MODULE

J= INTERMEDIATE EXHAUST MODULE Ø8
 K= INTERMEDIATE INLET MODULE Ø8
 W = INLET-EXHAUST MODULE Ø8

X= INLET DIAPHRAGM
 Y= EXHAUST DIAPHRAGM
 Z= INLET -EXHAUST DIAPHRAGM

NOTE:

While configuring the manifold always bear in mind that the maximum number of electrical signals available is 22.
N.B. CEB = Electrical connector for bistable valves (uses two electric signals)
 Intermediate supply / exhaust modules require the same space as a valve but do not use any electric signals (as the electric connector carries forward all signals received from the module immediately before).
 The separation diaphragms are positioned between two modules and replace the standard seal therefore do not increase the dimension of the assembly. When using a separation diaphragm of any type, it is necessary to add, in any position between diaphragm and the manifold and plate, an extra air supply / exhaust module depending on the type of diaphragm used.

General:

DeviceNet® module is directly integrated on Enova solenoid valves manifold via a 25 poles connector, normally used for multipolar cable connection.
 Enova 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 22 solenoid valves, and, in the same time, a max number of 3 Input modules 5200.08.
 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 22.
 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.

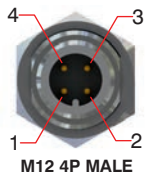
Ordering code

5423.22



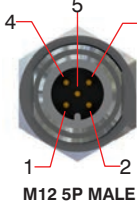
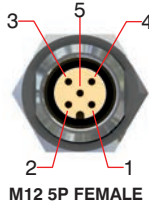
Scheme / Overall dimensions and I/O layout :

POWER SUPPLY connector

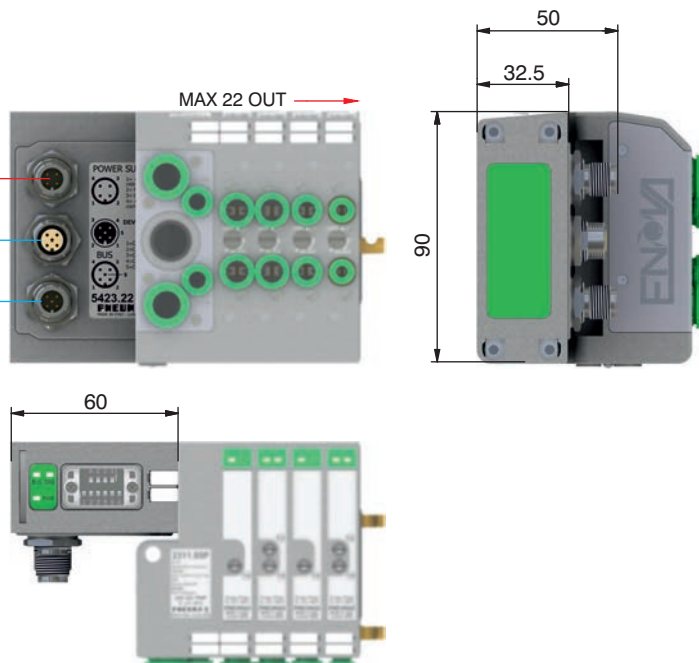


PIN	DESCRIPTION
1	+24 VDC (NODE & INPUTS)
2	NC
3	GND
4	+24 VDC (OUTPUTS)

NETWORK connectors



PIN	SIGNAL	DESCRIPTION
1	CAN_SHLD	Optional CAN Shield
2	CAN_V+	Optional CAN external positive supply (Dedicated for supply of transceiver and Optocouplers, if galvanic isolation of the bus node applies)
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4	CAN_H	CAN_H bus line (dominant high)
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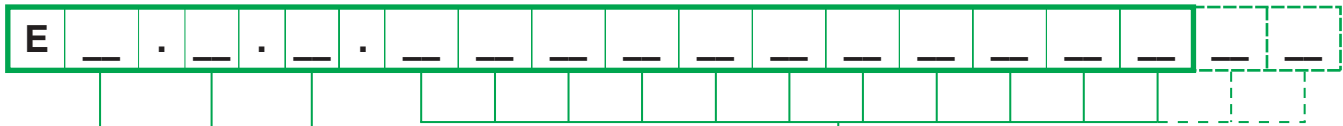


Technical characteristics

	Model	5423.22
	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)	25 mA
	Power supply diagnosis	Green led PWR
Outputs	PNP equivalent outputs	+24 VDC +/- 10%
	Maximum current for output	100 mA
	Maximum output number	22
	Max output simultaneously actuated	22
Network	Network connectors	2 M12 5P connectors male-female (IEC 60947-5-2)
	Baud rate	125 - 250 - 500 Kbit/s
	Addresses, possibile 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



Manifold layout configuration complete with DeviceNet® node



ACCESSORIES :

0= none
 D= DIN bar adapter
 S= 90° Fixing bracket

ENDPLATES SELECTION :

A= 5 ports endplated left side plus right side endplated
 B= 3 ports endplated left side plus right side endplated

BUS CONFIGURATION :

DA= DeviceNet 22 OUT
 DB= DeviceNet 22 OUT + 8 INPUTS
 DC= DeviceNet 22 OUT + 16 INPUTS
 DD= DeviceNet 22 OUT + 24 INPUTS

SHORT CODE

FUNCTION / CONNECTION:

- A4= EV 5/2 MONOST. SOL.-SPRING Ø4
- A6= EV 5/2 MONOST. SOL.-SPRING Ø6
- A8= EV 5/2 MONOST. SOL.-SPRING Ø8
- B4= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø4
- B6= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø6
- B8= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø8
- C4= EV 5/2 BISTABLE SOL.-SOL. Ø4
- C6= EV 5/2 BISTABLE SOL.-SOL. Ø6
- C8= EV 5/2 BISTABLE SOL.-SOL. Ø8
- E4= EV 5/3 CC SOL.-SOL. Ø4
- E6= EV 5/3 CC SOL.-SOL. Ø6
- E8= EV 5/3 CC SOL.-SOL. Ø8
- F4= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø4
- F6= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø6
- F8= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø8
- G4= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø4
- G6= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø6
- G8= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø8
- H4= EV 2x3/2 NC-NO SOL.-SOL. Ø4
- H6= EV 2x3/2 NC-NO SOL.-SOL. Ø6
- H8= EV 2x3/2 NC-NO SOL.-SOL. Ø8
- L4= EV 2x2/2 NC-NC SOL.-SOL. Ø4
- L6= EV 2x2/2 NC-NC SOL.-SOL. Ø6
- L8= EV 2x2/2 NC-NC SOL.-SOL. Ø8
- M4= EV 2x2/2 NO-NO SOL.-SOL. Ø4
- M6= EV 2x2/2 NO-NO SOL.-SOL. Ø6
- M8= EV 2x2/2 NO-NO SOL.-SOL. Ø8
- N4= EV 2x2/2 NC-NO SOL.-SOL. Ø4
- N6= EV 2x2/2 NC-NO SOL.-SOL. Ø6
- N8= EV 2x2/2 NC-NO SOL.-SOL. Ø8
- P4= EV 5/2 MONOST. SOL.-SPRING CEB Ø4
- P6= EV 5/2 MONOST. SOL.-SPRING CEB Ø6
- P8= EV 5/2 MONOST. SOL.-SPRING CEB Ø8
- R4= EV 5/2 MONOST. SOL.-DIFF. CEB Ø4
- R6= EV 5/2 MONOST. SOL.-DIFF. CEB Ø6
- R8= EV 5/2 MONOST. SOL.-DIFF. CEB Ø8
- T1 = 1 ELECTRIC SIGNAL THROUGH MODULE
- T2 = 2 ELECTRIC SIGNALS THROUGH MODULE

J= INTERMEDIATE EXHAUST MODULE Ø8
 K= INTERMEDIATE INLET MODULE Ø8
 W = INLET-EXHAUST MODULE Ø8

X= INLET DIAPHRAGM
 Y= EXHAUST DIAPHRAGM
 Z= INLET -EXHAUST DIAPHRAGM

NOTE:

While configuring the manifold always bear in mind that the maximum number of electrical signals available is 22.

N.B. CEB = Electrical connector for bistable valves (uses two electric signals)

Intermediate supply / exhaust modules require the same space as a valve but do not use any electric signals (as the electric connector carries forward all signals received from the module immediately before).

The separation diaphragms are positioned between two modules and replace the standard seal therefore do not increase the dimension of the assembly. When using a separation diaphragm of any type, it is necessary to add, in any position between diaphragm and the manifold and plate, an extra air supply / exhaust module depending on the type of diaphragm used.



General:

PROFIBUS DP module is directly integrated on Enova solenoid valves manifold via a 25 poles connector, normally used for multipolar cable connection.

Enova 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 22 solenoid valves, when is connected 0 or 1 INPUT modules, or 16 if node is fitted with 2 INPUT modules. The max number of INPUT modules 5200.08, is 2.

PROFIBUS DP module recognizes automatically the presence of the Input modules on power on.

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.

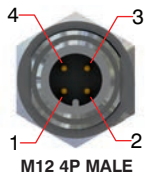
Ordering code

5323.22



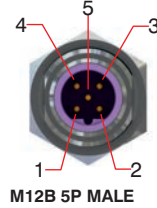
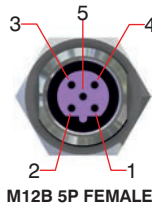
Scheme / Overall dimensions and I/O layout :

POWER SUPPLY connector

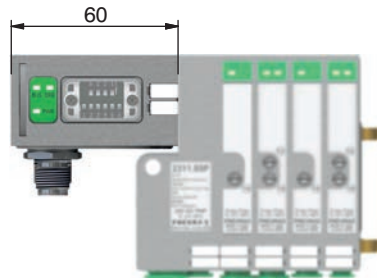
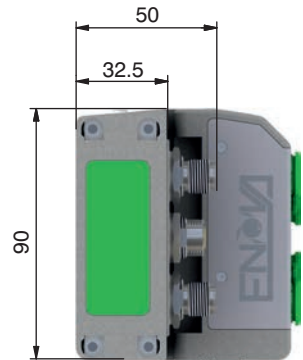
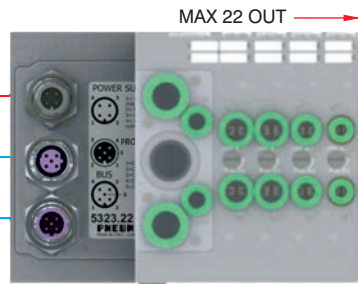


PIN	DESCRIPTION
1	+24 VDC (NODE & INPUTS)
2	NC
3	GND
4	+24 VDC (OUTPUTS)

NETWORK connectors



PIN	SIGNAL	DESCRIPTION
1	VP	Power supply plus, (P5V)
2	A-line	Receive / Transmit data -N, A-line
3	DGND	Data Ground (reference potential to VP)
4	B-line	Receive / Transmit data -plus, B-line
5	SHIELD	Shield or PE

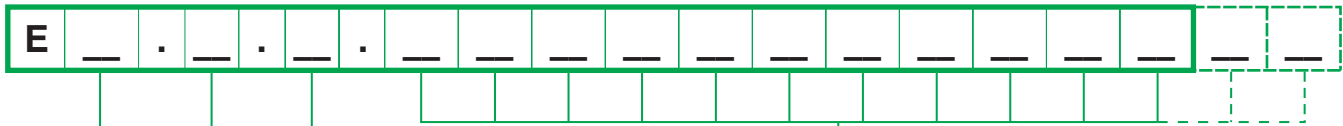


Technical characteristics

	Model	5323.22
	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	22 or 16 if node is fitted with 2 INPUT modules
	Max output simultaneously actuated	22
Network	Network connectors	2 M12 5P connectors male-female (IEC 60947-5-2)
	Baud rate	125 - 250 - 500 Kbit/s
	Addresses, possibile 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



Manifold layout configuration complete with PROFIBUS node



ACCESSORIES :

0= none
D= DIN bar adapter
S= 90° Fixing bracket

ENDPLATES SELECTION :

A= 5 ports endplated left side plus right side endplated
B= 3 ports endplated left side plus right side endplated

BUS CONFIGURATION :

PA= PROFIBUS 22 OUT
PB= PROFIBUS 22 OUT + 8 INPUTS
PC= PROFIBUS 16 OUT + 16 INPUTS

SHORT CODE

FUNCTION / CONNECTION:

- A4= EV 5/2 MONOST. SOL.-SPRING Ø4
- A6= EV 5/2 MONOST. SOL.-SPRING Ø6
- A8= EV 5/2 MONOST. SOL.-SPRING Ø8
- B4= EV 5/2 MONOST. SOL.-DIFFERENTIAL Ø4
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- F8= EV 2x3/2 NC-NC (= 5/3 CA) SOL.-SOL. Ø8
- G4= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø4
- G6= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø6
- G8= EV 2x3/2 NO-NO (= 5/3 CP) SOL.-SOL. Ø8
- H4= EV 2x3/2 NC-NO SOL.-SOL. Ø4
- H6= EV 2x3/2 NC-NO SOL.-SOL. Ø6
- H8= EV 2x3/2 NC-NO SOL.-SOL. Ø8
- L4= EV 2x2/2 NC-NC SOL.-SOL. Ø4
- L6= EV 2x2/2 NC-NC SOL.-SOL. Ø6
- L8= EV 2x2/2 NC-NC SOL.-SOL. Ø8
- M4= EV 2x2/2 NO-NO SOL.-SOL. Ø4
- M6= EV 2x2/2 NO-NO SOL.-SOL. Ø6
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- X= INLET DIAPHRAGM
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NOTE:

While configuring the manifold always bear in mind that the maximum number of electrical signals available is 22.

N.B. CEB = Electrical connector for bistable valves (uses two electric signals)

Intermediate supply / exhaust modules require the same space as a valve but do not use any electric signals (as the electric connector carries forward all signals received from the module immediately before).

The separation diaphragms are positioned between two modules and replace the standard seal therefore do not increase the dimension of the assembly. When using a separation diaphragm of any type, it is necessary to add, in any position between diaphragm and the manifold and plate, an extra air supply / exhaust module depending on the type of diaphragm used.



General:

Modules have 8 connectors M8 3P female.

The Inputs are PNP equivalent 24 VDC ±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. 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.

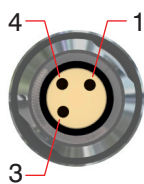
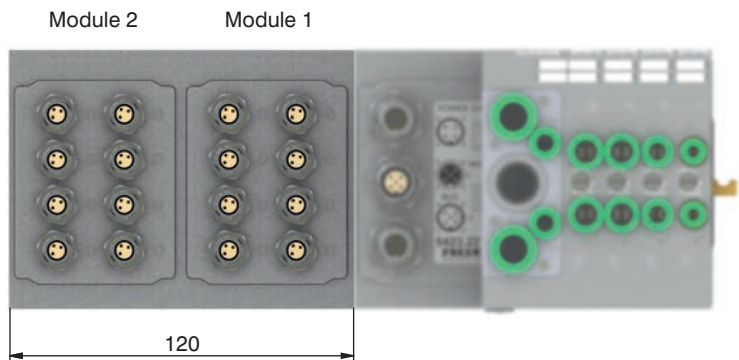
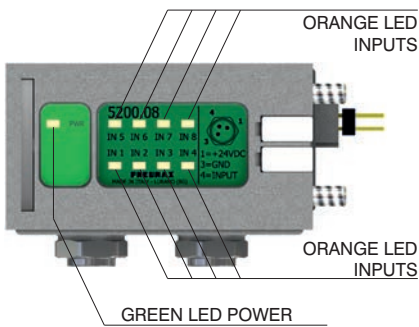
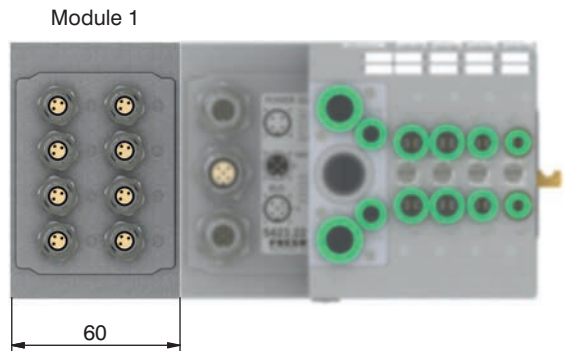
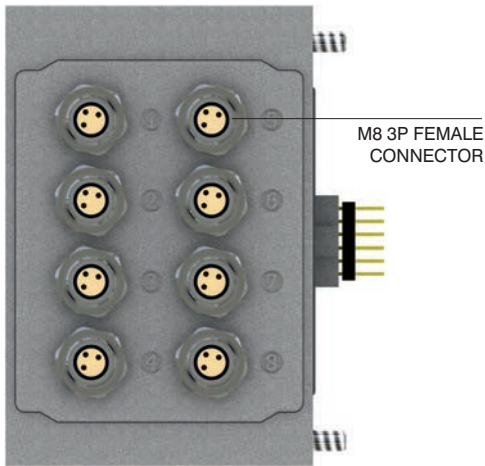
The Maximum number of Input modules supported is 3 for CANopen and DeviceNet, 2 for PROFIBUS DP.

Ordering code

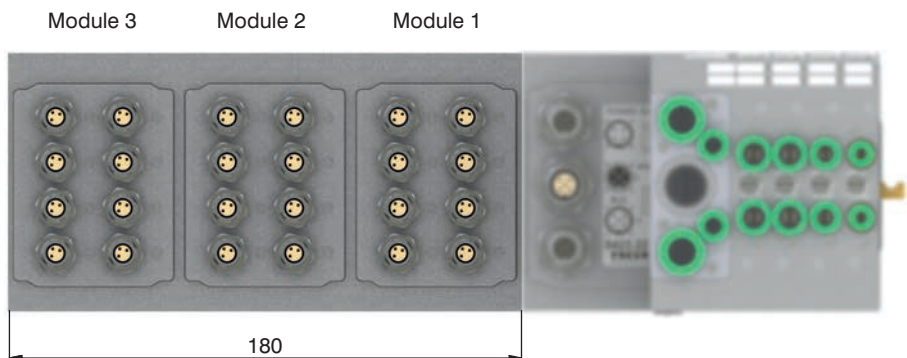
5200.08



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

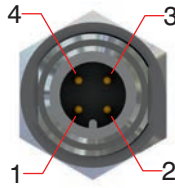
Ordering code

5312A.F04.00



POWER SUPPLY connector

Upper view
Slave connector

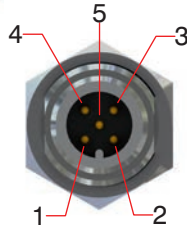


PIN	DESCRIPTION
1	+24 VDC Node
2	
3	0 V
4	+24 VDC Outputs

Socket for Bus CANopen
STRAIGHT CONNECTOR
M12B 5P FEMALE

Ordering code

5312A.F05.00



NETWORK connectors

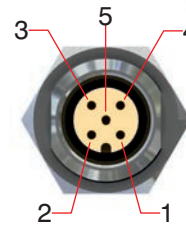
PIN	DESCRIPTION
1	(CAN_SHIELD)
2	(CAN_V+)
3	CAN_GND
4	CAN_H
5	CAN_L

Upper view
Slave connector

Plug for Bus CANopen
STRAIGHT CONNECTOR
M12A 5P MALE

Ordering code

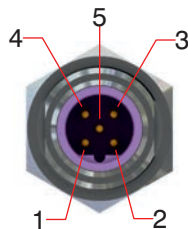
5312A.M05.00



Socket for Bus PROFIBUS
STRAIGHT CONNECTOR
M12B 5P FEMALE

Ordering code

5312B.F05.00



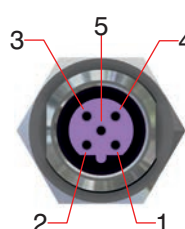
Upper view
Slave connector

PIN	DESCRIPTION
1	Power Supply
2	A-line
3	DGND
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

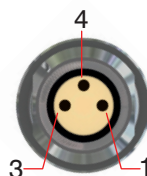
Ordering code

5308A.M03.00



INPUT connectors

Upper view
Slave connector



PIN	DESCRIPTION
1	+24 VDC
4	INPUT
3	GND

M12 plug

Ordering code

5300.T12



Plugs

M8 plug

Ordering code

5300.T08

