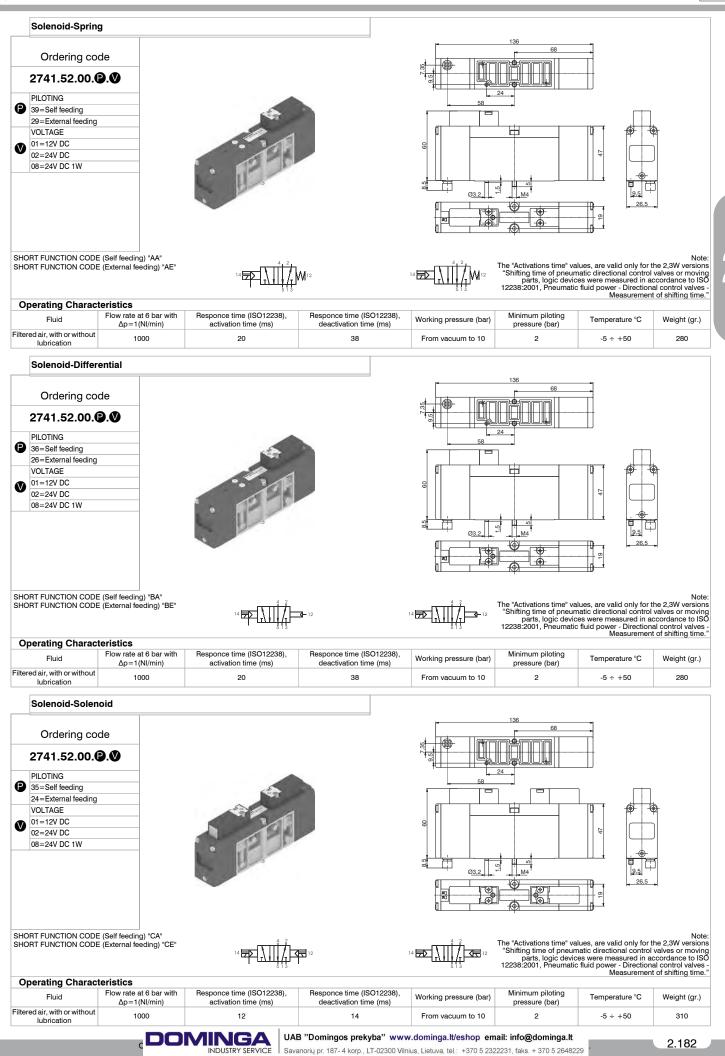
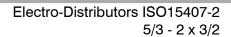
# Electro-Distributors ISO15407-2 5/2

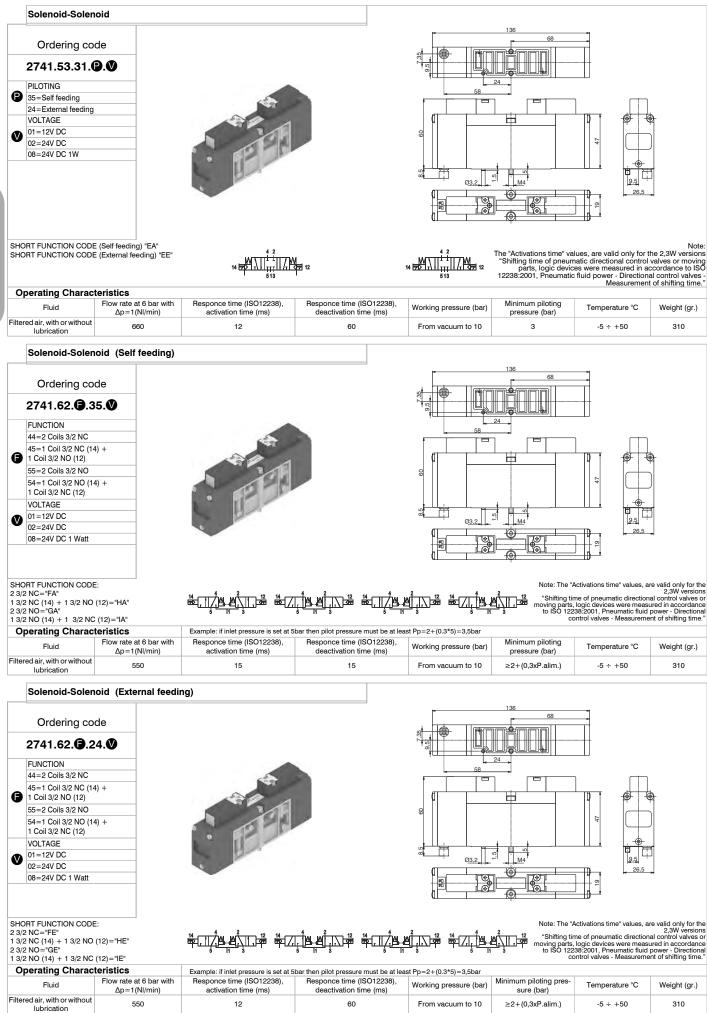


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2.182



Solenoid-Solenoid



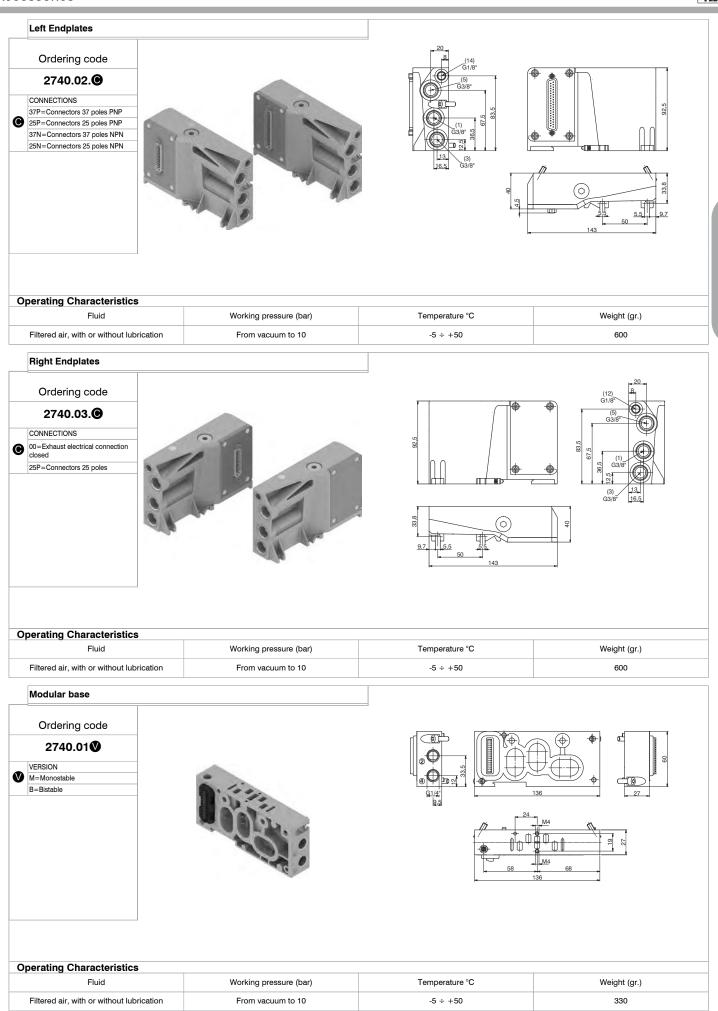
2.183

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# Electro-Distributors ISO15407-2 Accessories

2





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37

Weight (gr.)

100

Constructions characteristics Weight (gr.) 65 Electro-Distributors ISO15407-2 Accessories



The electrical connection is achieved by a 37 pin connector and can manage up to 32 solenoid pilots.

It is also possible use a 25 sub-D pin connector and, in this case, it is possible to manage a maximum of 22 outputs.

The management and distribution of the electrical signals between each valve is obtained thanks to an electrical connector which receives the signals from the previous module, uses one, two or none depending on the type, and carries forward to the next module the remaining.

Bistable valves, 5/3 and 2x3/2 valves which have two solenoid pilots built in, use two signals; the first is directed to the pilot side 14 the second to the pilot side 12. Modular bases can be fitted with two type of electrical connector: the monostable version uses only one signal (connected to the pilot side 14) and carries forward the remaining, the bistable version which always uses two signals.

This solution allows the modification of the manifold (replacement of monostable valves without bistable for example) without having to reset the PLC output layout.

On other hand this solution limits the maximum number of valves to 16 when it is used a 37 pin connector or 11 when it is used a 25 pin connector.

Intermediate supply/exhaust module uses an electrical connector directly forwarding signals to the next one without any kind of modification.

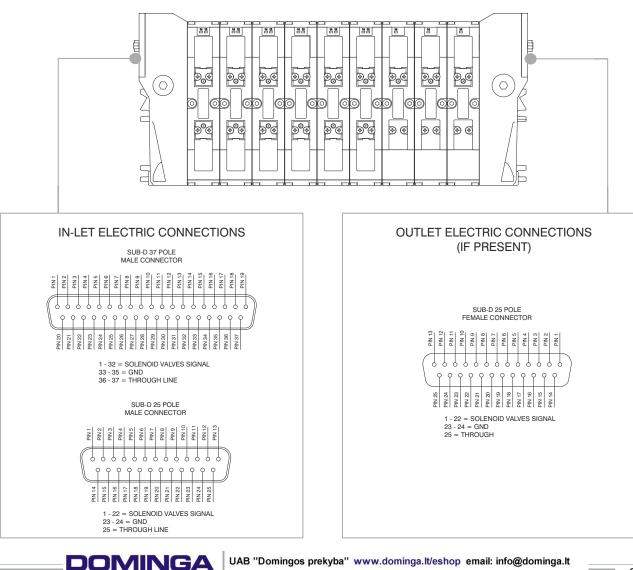
This allows the use of intermediate modules in any position of the manifold.

All the electrical signals that have not been used on the manifold can be used placing at the end of the manifold the end plate complete with the 25 sub-D female connector.

The number of available signals depends of the connector used to the type of the left end plate and by the total signals used along the manifold:

37 pin connectornr of output = 32 - (total of used signals)25 pin connectornr of output = 22 - (total of used signals)

Following we show some examples of possible combination and the relative pin assignment.



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2



#### 37 PIN Connector correspondence for valves assembled on mixed bases 1) 9<sub>10</sub> 12 3 (4) 15 5 7 13 14 PIN 1 = PILOT 14 EV POS.1 PIN 2 = PILOT 12 EV POS.1 PIN 3 = PILOT 14 EV POS.2 PIN 4 = PILOT 12 EV POS.2 PIN 5 = PILOT 14 EV POS.3 PIN 6 = PILOT 12 EV POS.3 PIN 7 = PILOT 14 EV POS.4 PIN 8 = PILOT 12 EV POS.4 . PIN 9 = PILOT 14 EV POS.5 PIN 10 = PILOT 12 EV POS.5 PIN 11 = PILOT 14 EV POS.6 PIN 12 = PILOT 12 EV POS.6 PIN 13 = PILOT 14 EV POS.7 PIN 14 = PILOT 14 EV POS.8 PIN 15 = PILOT 14 EV POS.9 POS. 7 1 2 3 5 6 8 9 4 37 PIN Connector correspondence for manifold mounted on bases for bistable valves 1\_ 2 9<sub>10</sub> 5 7 8 1 (1) (14) (15) 0 PIN 1 = PILOT 14 EV POS.1 PIN 2 = PILOT 12 EV POS.1 PIN 3 = PILOT 14 EV POS.2 PIN 4 = PILOT 12 EV POS.2 PIN 5 = PILOT 14 EV POS.3 PIN 6 = PILOT 12 EV POS.3 PIN 7 = PILOT 14 EV POS.4 PIN 8 = PILOT 12 EV POS.4 PIN 9 = PILOT 14 EV POS.5 PIN 10 = PILOT 12 EV POS.5 PIN 11 = PILOT 14 EV POS.6 PIN 12 = PILOT 12 EV POS.6 PIN 13 = PILOT 14 EV POS.7 PIN 14 = NOT CONNECTED PIN 15 = PILOT 14 EV POS.8 PIN 16 = NOT CONNECTED PIN 17 = PILOT 14 EV POS.9 PIN 18 = NOT CONNECTED POS. 2 3 4 5 6 7 9 1 8 37 PIN Connector correspondence for manifold for 32 position manifold with monostable valves on base 37P 32 25P 1 2 3 0 30 3 1 2 3 20 2 2 96 0 6 POS POS. 1 2 3 30 31 32 1 2 3 20 21 22 ... ...

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# Electro-Distributors ISO15407-2 Accessories - 8 Input Module



#### General :

Using the 2740.03.25P 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.

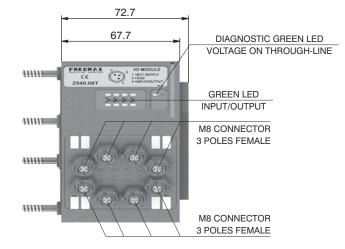
**Please note:** If the manifold is connected by a multi-core connection, each connection can be used as either an input or an output, while if the manifold is connected to a serial node the connections can only be used as an output.

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

2540.08T

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.

I.E :

Pin 25 of the 25 pin multi-pole connector (code 2740.02.25P or 2740.12.25P)

Pin 36-37 of the 37 pin multi-pole connector (code 2740.02.37P or 2740.12.37P)

## 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).

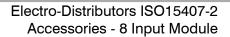
General characteristics
----------------------------

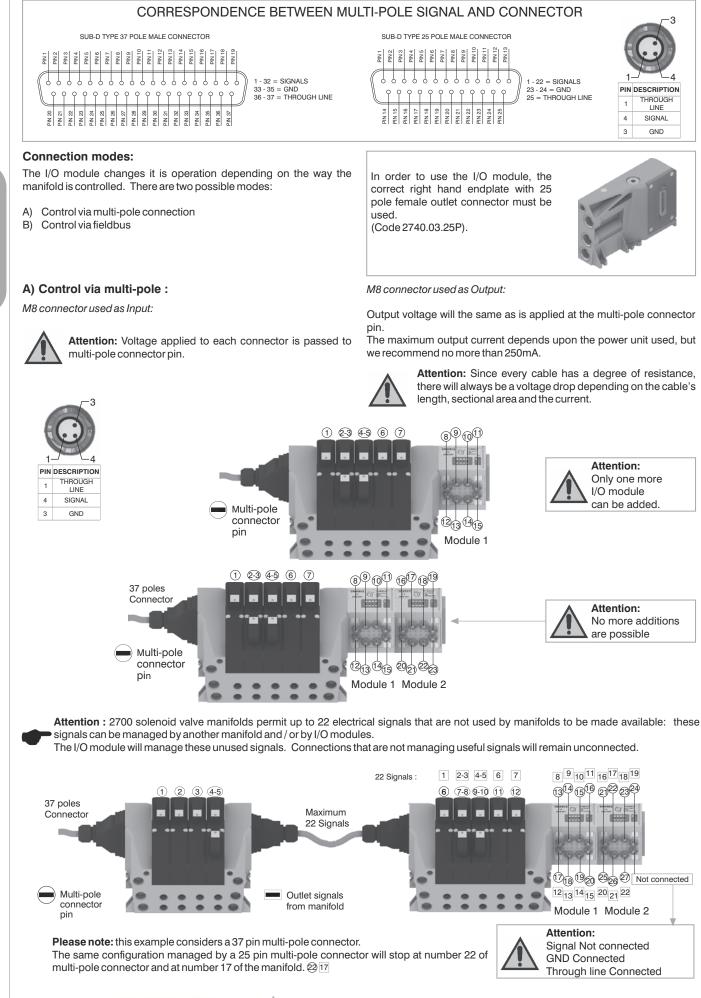
Model	2540.08T
Case	Reinforced technopolymer
I/O Connector	M8 connector 3 poles female (IEC 60947-5-2)
PIN 1 voltage	By the user
(connector used as Input)	
PIN 4 voltage diagnosis	Green Led
Node consumption (Outlets excluded)	7mA per each LED with 24 VDC signal
Outlets voltage	+23,3 VDC (serial) /by 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



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2.189

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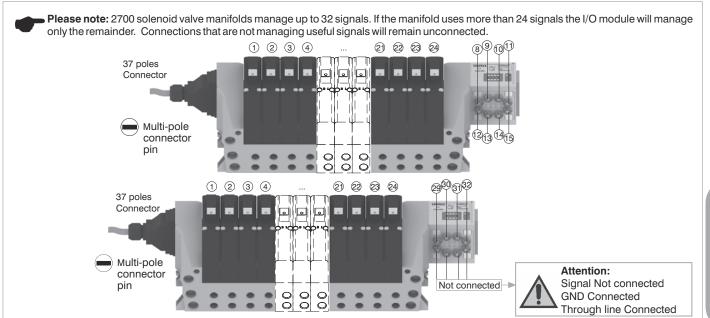
Series 2700

PRPENA

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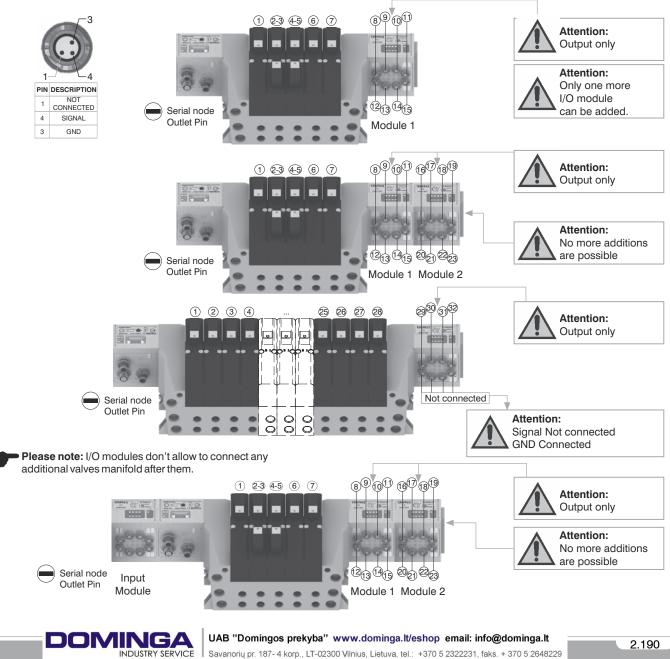
# Electro-Distributors ISO15407-2 Accessories - 8 Input Module



# 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. The 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.

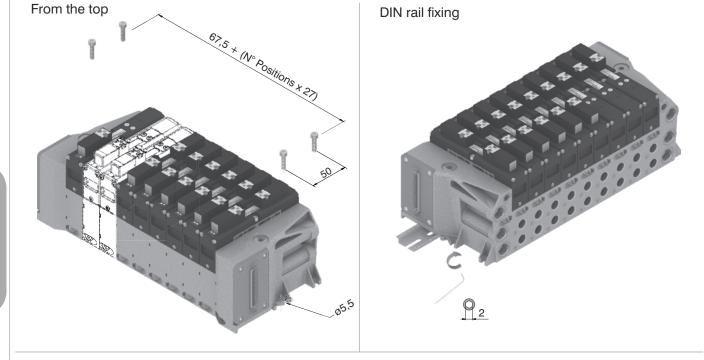


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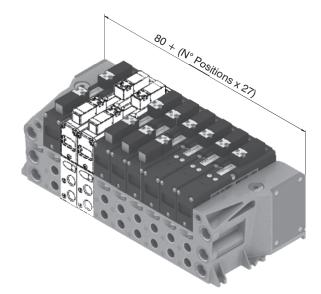
Series 2700

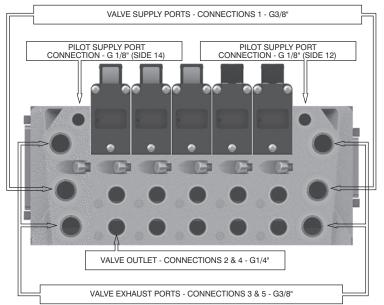


# Electro-Distributors ISO15407-2 Accessories



Maximum possible size according to valves seats



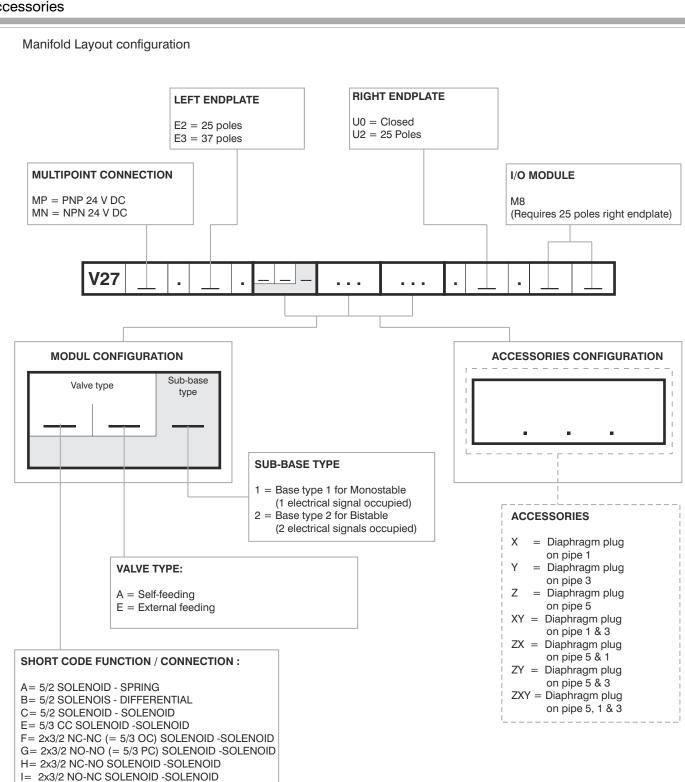






Series 2700





T= FREE VALVE SPACE PLUG

#### NOTE:

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

32 when an input 37 poles endplate is used.

22 when an input 25 poles endplate is used.

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.



2.192