| WWW.CROUZET-CONTROL.COM PNEUMATICS PRODUCTS

Vacuum handling components

- > Sur le principe du Venturi
- Facilement raccordable



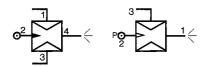
Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive







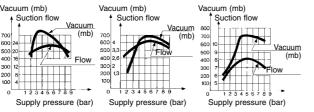
Pa	rt numbers			
Va	cuum generators	81 535 301	81 545 001	81 545 005
		Sub-base mounting	Plug-in	Plug-in



Characteristics Mala/Esmala/Esmala (MEE) Push-in connectors for semi-rigid tubing (NFE 49100) Operating pressure

Push-in connectors for	Male/Female/Female (MFF)		<u>Ø 4 mm</u>		
semi-rigid tubing (NFE 49100)	Female/Female/ Female (FFF)	_	_	Ø 6 mm	
Operating pressure	bar	2 → 8	2 → 8	2 → 8	
Vacuum pad material		_	_		
Weight	g	80	13	25	

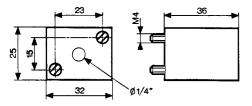
Detection of the pressure decrease can be achieved by the use of manostats (see pages 38/39)



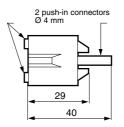
Dimensions

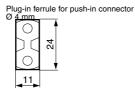
81 535 301

Sub-base mounting 81 531... and 81 532...

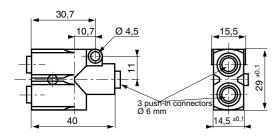


81 545 001





81 545 005



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PNEUMATIC LOGIC COMPONENTS

General characteristics

Operating fluid

- Compressed air or inert gas.

Conditions of use

- Operating pressure 2 at 8 bars (except for special conditions).
- Fluid: Filtered air to 50 microns non lubricated.
- Operating temperature from 5° C to + 50° C (under + 5° C the dew point must be below 10° C for the application).
- For optimum performance, the elements should be inter-connected by air supply tubing with an internal diameter ≥ at 2.5 mm.

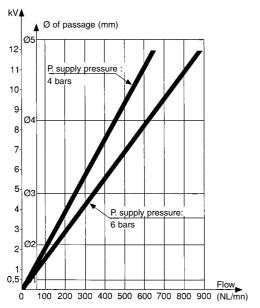
Mounting recommendations

- The elements should be mounted and piped in a clean atmosphere in order to prevent any form of pollution entering the system.
- Minimum torque for element fixing screws: 5 cm/ka.
- maximum torque for element fixing screws: 10 cm/kg.

Characteristics common to all elements in the modular system

- The characteristics have been obtained with a supply pressure at 6
- The flow in NI/min is the number of litres of air at normal atmospheric pressure obtained with the output open to atmophere and the supply pressure at 4 bars
- The consumption in NI/min is the number of litres of free air necessary for the unit to function.
- kV = the flow coefficient of the equipment.
- Mechanical life > 107 operations.

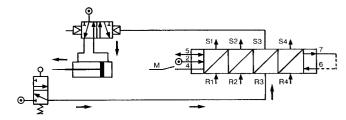
flow graphs



Sequencer modules

Operation results from the combination of a sequential cycle. A system comprises individual modules which are joined together by means of a sub-base. Each module has a memory which delivers an output signal and receives an input signal.

An indicator on each module allows the operator to monitor the progress of the cycle and identity quickly and easily any fault which may

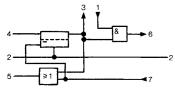


Operation results from the combination of three functions (memory, AND and OR) which constitute each module.

The memory activates the output and gives priority to the reset signal. The AND element ensures the transition to the next module but only if an input signal is present.

The OR element ensures the resetting of all previously operated

Function diagram



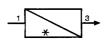
sequencer module with maintained reset

Brake

This maintains the memory spool in position only when the supply is lost.

Module with auto reset





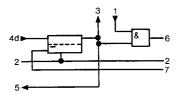
Brake

This returns the memory spool to the reset condition only when the supply is lost

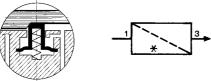
The general principle is to advance the sequencer step by command impulses to the inputs of the even steps, alternating with the command impulses to the inputs of the odd steps.

Used for example on a transfer machine to shift the information "bad component" collected at a test-test "n" steps further along the machine to a reject station.

Function diagram



Auto reset sequencer module



Sequencer modules

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-) 100 % pneumatic
- Ideal for a simple pneumatic sequence



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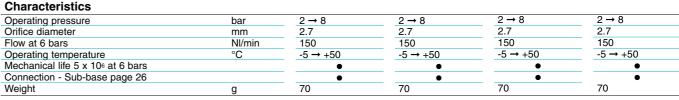
Reset to zero

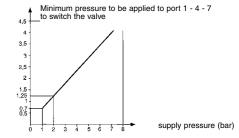
	81 550 001	81 550 201	81 550 401
sequencer	with 'maintain'	Reset to zero	_
shift register	_	_	with 'maintain'
-			

Symbol

Versions





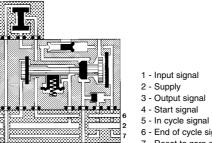


Principle of operation

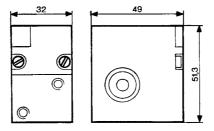
Dimensions

(supplied without logic element. For choice of units see pages 46/47)

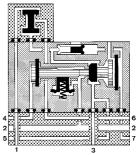
Sequencer module with maintained reset



- 4 Start signal
- 6 End of cycle signal
- 7 Reset to zero signal

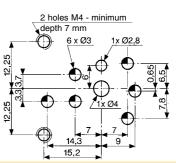


Shif register with maintained reset



- 1 Input signal
- 2 Supply
- 3 Output signal 4 - Start signal
- 5 In cycle signal
- 6 End of cycle signal
- 7 Reset to zero signal

Mounting plan for sequencer



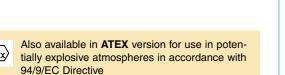
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| WWW.CROUZET-CONTROL.COM

PNEUMATICS PRODUCTS

Sequencer sub-bases









Front connecting (DIN-omega) Versions Rear connecting (with clips)

Sub-base (DIN oméga)

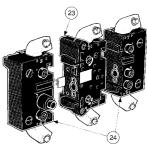
End bases - one pair

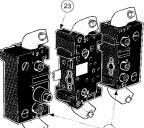
Diversion base

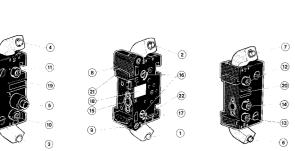
Characteristics						
Sub-bases Rotatable connectors		•	•	•		
(fitted) Pressure indicators		•	•	•		
Operating temperature	°C	-5 → +50	-5 → +50	-5 → +50		
Weight	g	55	135	60		

Sequencer connections

Front connecting

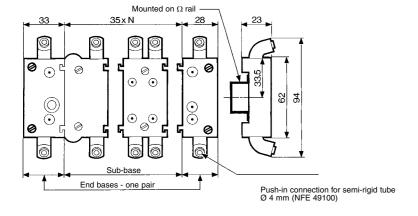






- 1 Input port (green port 1) Ø 4
- 2 Output port (red port 1) Ø 4
- 3 Input port, cycle start (green port 1) Ø 4
- 4 Output port, in-cycle signal (red port 1) Ø 4
- 5 Output port, cycle end (red port 6) Ø 4
- 6 Output port, cycle end (red port 6) Ø 4
- 7 Input port, reset to zero (green port 7) Ø 4
- 8 Output indicator (red)
- 9 Input indicator (green)
- 10 Cycle start indicator at port 4 (green)
- 11 In-cycle indicator at port 5 (red)
- 12 Input indicator at port 7 (green)
- 13 End of cycle indicator at port 6 (red)
- 14 Supply indicator at port 2 (yellow)
- 15 Interconnecting ports
- 16 Fixing screws
- 17 Engraved arrow to indicate direction of sequence
- 18 Marking tag
- 19 Marking tag position
- 20 Marking tag position
- 21 Mounting tongue
- 22 Mounting groove
- 23 Sub-base
- 24 End bases

Dimensions Front connecting







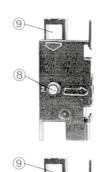
Sub-base (with clips)

End bases - one pair

_		_	

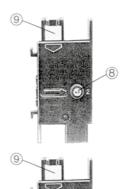
_	•
-5 → +50	-5 → +50
40	120

Rear connecting



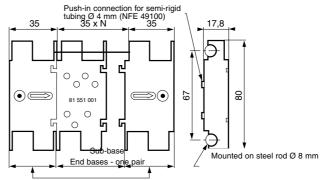






- 1 Input port (marked port 1)
- 2 Supply port (Port 2)
- 3 Output port (Port 3)
- 4 Cycle start signal port (Port 4)
- 5 In-cycle signal port (Port 5)
- 6 End of cycle signal port (Port 6)
- 7 Reset to zero signal port (Port 7)
- 8 Indicator at supply port
- 9 Marking area

Rear connecting

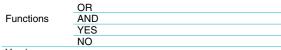


Logic elements

- > Performs "combined" Pneumatic
- Easy to use



Also available in ATEX version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive







On Sub-base

page 4/14-4/15







Plug-in

Ø6



_
On Sub-base
page 4/14-4/15

Symbol



Plug-in

Ø 4



Characteristics					
Push-in connection for semi-rigid	Male/Female/Female	_	Ø 4 mm	_	_
tubing (NFE 49100)	Female/Female/Female	_	_	Ø 6 mm	_
Colour		Blue	Blue	Blue	Green
Operating pressure	bar	2 → 8	2 → 8	2 → 8	2 → 8
Orifice diameter	mm	2.7	2.7	4	2.7
Flow at 6 bars	NI/min	170	170	200	170
Pressure indicator		•	_	_	•
Switching time	ms	_	_	_	_
Operating temperature	°C	-5 → +50	-5 → +50	-5 → +50	-5 → +50
Mechanical life	operations	>107	>107	>107	>107
Weight	g	25	12	25	25

Pilot/pressure curves

P.p : Pilot pressure

P.a : Supply pressure

Principle of operation



Cellule OR The output signal "S" is present when a signal at "a" OR "b" is present:

S = a OR b

S = a + b



Cellule AND

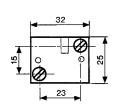
The output signal "S" is present only when signals "a" AND "b" are present simultaneously:

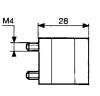
S = a AND b

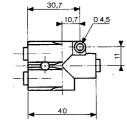
 $S = a \cdot b$

Dimensions

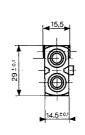
81 521 501 - 81 522 501

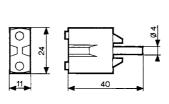






81 540 005 - 81 541 005





81 540 001 - 81 541 001

Other information

See pages 54/55 for mounting plan for logic elements.















81 541	001
	_
	_
Plug-in	

Ø 4

Plug-in Ø6

On sub-base page 36-37

Threshold On sub-base page 4/14-4/15

Threshold On sub-base page 4/14-4/15

Threshold On sub-base page 4/14-4/15



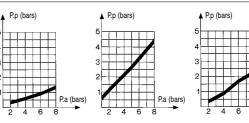


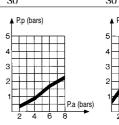


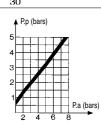




Ø 4 mm	_	_			
_	Ø 6 mm	_	_		_
Green	Green	Yellow	Orange	Light grey	Dark grey
2 → 8	2 → 8	2 → 8	2 → 8	2 → 8	2 → 8
2.7	4	2.7	2.7	2.7	2.7
150	200	170	170	170	170
_	•	•	•	•	•
_	_	< 4	< 4	< 4	< 4
-5 → +50	-5 → +50	-5 → +50	-5 → +50	-5 → +50	-5 → +50
>10 ⁷	>107	>107	>107	>10 ⁷	>107
13	25	30	30	30	30









YES element

The output signal "S" is only present when the pilot is present "a" is present:

S = a YES b



NOT element

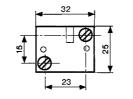
The output signal "s" is present only if the input signal "a" is NOT present. The output signal is therefore the inverse of the pilot signal:

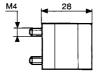
S= NOT a

If the supply port is connected to a 2nd input "b", the function obtained is called inhibition:

S = NOT a AND b $S = \overline{a} \cdot b$

81 501 025 - 81 503 025 81 504 025 - 81 506 025



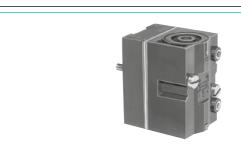


Memory element

- > 100 % pneumatic
- Bistable pneumatic



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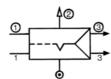


Version

81 523 201 With pressure indicator

With pressure indicator and manual

Symbol



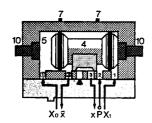
Characteristics

0 1 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0			
Colour		Black	Black
Operating pressure	bar	2 → 8	2 → 8
Orifice diameter	mm	2.7	2.7
Minimum memory pilot pressure	bar	2.5	2.5
Operating temperature	°C	-5 → +50	-5 → +50
Flow at 6 bars	NI/min	200	200
Connection - On sub-base page 4/14-4/15		•	•
Weight	a	90	90

Principle of operation

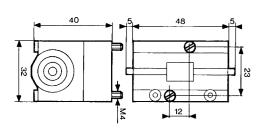
The function is that of a 4/2 valves. The appearence of signal "X1" causes the displacement of the slide valve. The output port "x" is then put under pressure. This state is remembered until the arrival of signal "X0". This signal reverses the slide valve, the output "x" is put under pressure. This state is likewise remembered. The output:

- "x" under pressure indicates that the information in the MEMORY is "X1",
- "x" under pressure indicates that the information in the MEMORY is "X0".

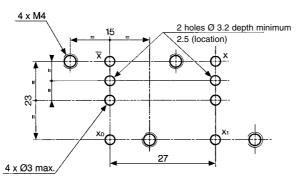


Dimensions

81 523 201 - 81 523 601



Dimensions of logic and memory elements



Viewed from above

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Timers fixed timing

| WWW.CROUZET-CONTROL.COM

Fixed 0.4 s



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Version

Positive output

Symbol

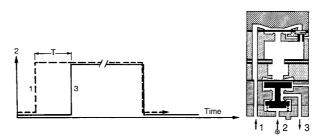


Characteristics		
Timing	S	0.4
Operating pressure	bar	2 → 8
Flow at 6 bars	NI/min	170
Orifice diameter	mm	2.7
Accuracy	%	± 5
Min. reset time	S	<0.1
Connection - On sub-base page 36-37		•

operations

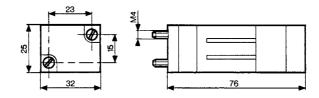
Operating temperature
Mechanical life
Weight
Principle of operation

with positive output



Dimensions

81 503 540



Timers (with adjustable timing)

> 60 s adjustable (60 s max.)



Also available in ATEX version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

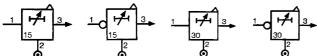






		81 503 710	81 506 710	81 503 720	81 506 720	81 503 725	81 506 725
Eupotion	positive	•	_	•	_	•	_
Function	negative	_	•	_	•	_	•

Symbol



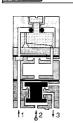
		البت	<u> </u>	100-	ليتهنقا	100	100
		o	9	o	•	o	•
Characteristics							
Timing	S	0.1 → 15	0.1 → 15	0.1 → 30	0.1 → 30	0.1 → 60	0.1 → 60
Operating pressure	bar	2 → 8	2 → 8	2 → 8	2 → 8	2 → 8	2 → 8
Flow at 6 bars	NI/min	170	170	170	170	170	170
Orifice diameter	mm	2.7	2.7	2.7	2.7	2.7	2.7
Accuracy	%	± 5	± 5	± 5	± 5	± 5	± 5
Min. reset time	S	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Connection - On sub-base	page 4/14-4/15	•	•	•	•	•	•
Operating temperature	°C	-5 → +50	-5 → +50	-5 → +50	-5 → +50	-5 → +50	-5 → +50
Mechanical life	operations	>10 ⁷	>107	>10 ⁷	>10 ⁷	>10 ⁷	>10 ⁷
Weight	g	90	90	100	100	120	120
Accessories							
Panel mounting adaptator		79 451 698	79 451 698	79 451 903	79 451 903	_	_

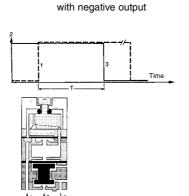
Weight	g	53
Principle		I

The operation of these pneumatic timers is similar to that of with positive output electronic timers (circuit with capacitor/resistor)

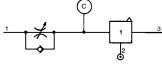
Principle of operation



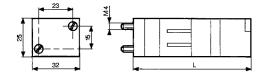




Timing by charging of reservoir

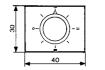


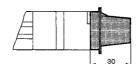
The reservoir fills via the flow restrictor until the switching point of the timer output is reached (positive or negative). The non-return valve allows the reservoir to be emptied rapidly for the next timing.

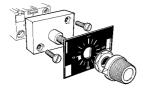


	L (mm)
81 503 710 - 81 506 710	78
81 503 720 - 81 506 720	92
81 503 725 - 81 506 725	125

Adaptator 79 451 . . .







For panel mounting, a pre-drilled hole Ø 10.5 mm si required

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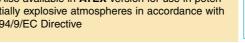
Timers

> Fixed and adjustable



Symbol

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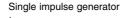


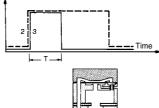


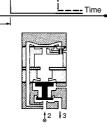
Single impulse generator	Fixed	81 507 540	_	_
	Adjustable	_	81 507 720	-
Adjustable frequency generator		_		81 506 940

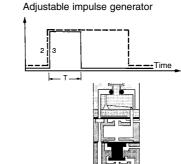
Symbol		2 3	2 J/L 3	2 11/13
Characteristics				
Timing	S	0.4	0.1 → 30	_
Frequency	Hz	_	_	0.02 → 8
Operating pressure	bar	2 → 8	2 → 8	2 → 8
Flow at 6 bars	NI/min	170	170	170
Orifice diameter	mm	2.7	2.7	2.7
Accuracy	%	± 5	± 5	± 5
Min. reset time	S	<0.1	<0.1	<0.1
Connection - On sub-base page 4/14-4/15		•	•	•
Operating temperature	°C	-5 → +50	-5 → +50	-5 → +50
Mechanical life	operations	>10 ⁷	>10 ⁷	>10 ⁷
Weight	g	106	180	85
Accessories				
Panel mounting adaptators		_	79 451 904	79 451 905
Weight (g)		_	53	53

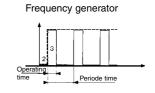
Principle of operation

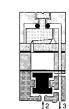




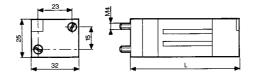




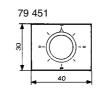


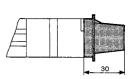


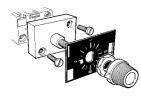
Dimensions



Part numbers	L (mm)
81 507 540	73
81 507 720	99
81 506 940	72







For panel mounting, a pre-drilled hole Ø 10.5 mm si required

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Timing Accessories

Also available in ATEX version for use in poten-

tially explosive atmospheres in accordance with









One-way in-line fixed
flow restritors

Capacity for timing

94/9/EC Directive

One-way in-line fixed flow restritors	Flow at 4 bars Nm ³ /h	Ø orifice	e (mm)
	$0.18 \rightarrow 0.30$	0.3	white
	$0.35 \to 0.50$	0.4	yellow
	$0.58 \rightarrow 0.77$	0.5	red
	$0.80 \rightarrow 1.06$	0.6	green
	1.10 → 1.39	0.7	blue
	1.45 → 1.65	0.8	grey
	$2.30 \rightarrow 2.80$	1	black
	$0.08 \rightarrow 0.12$	0.25	white
One-way adjustable flow restritor			

10 • 60 s

е	81 529 003
v	81 529 004
v d	81 529 005
n	81 529 006
е	81 529 007
	81 529 008
y k	81 529 010
е	81 529 025

81 529 003	
81 529 004	
81 529 005	
81 529 006	
81 529 007	
81 529 008	
81 529 010	
81 529 025	
	81

9	81 529 003
/	81 529 004
/ l	81 529 005
1	81 529 006
)	81 529 007
,	81 529 008
/ (81 529 010
)	81 529 025

9 003	_
9 004	_
9 005	_
9 006	_
9 007	
9 008	_
9 010	_
9 025	
	81 525 1

_	<u> </u>	_
_	_	_
<u> </u>		_
_	_	
		_
_	_	
		_
_	_	_
04 505 404	04 500 004	
81 525 101	81 526 001	_
		79 458 80
_		79 400 00

Symbol







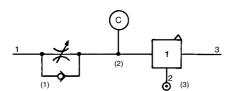


			بها	ل	ل	
Characteris	tics					
Free flow		NI/min	Depending on orifice	30	200	_
Orifice diamete	er	mm	Depending on orifice	0 → 0.5	0 → 1.7	_
Operating pres	sure	bars	1 → 8	1 → 8	2 → 8	_
Timing		S	_	_	_	10 → 60
Capacity		cm ³		_	_	30
Connection	Sub-base page 4/14-4/15		_	•	•	_
Connection	Push-in connection for semi- rigid tubing (NFE 49100)	mm	Ø 4	_	_	Ø 4
Operating tem	perature	°C	-5 → +50	-5 → +50	-5 → +50	-5 → +50

Connections

- For timing circuit

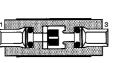
- One-way flow restrictor 81 525 1 81 529 0 (1)
 Reservoir 79 458 018 (2)
 Relay element 81 503 0 81 506 0 (3) page 4/6-4/7 Sub-base page 4/14-4/15

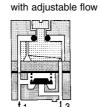


Principle of operation

One-way

with fixed flow





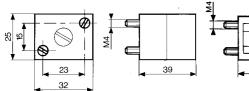
79 452 808

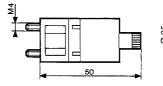
One-way

Dimensions

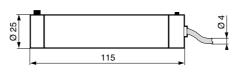
81 529 81 525 101







81 526 001



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Regulator accessories

Also available in ATEX version for use in poten-

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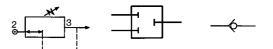


Dar	t n	 nh	ere

94/9/EC Directive

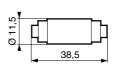
Mini-détenteur Plug element 81 529 901 In-line non-return

Symbol

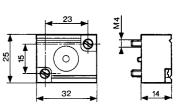


Characteris	stics				
Operating pres	ssure	bars	2 → 8	_	2 → 8
Flow at 6 bars	8	NI/min	200	_	200
Adjustable out	tput pressure	bar	0,1 → 8	_	
Connection	Sub-base		•	•	
Connection	Push-in connection for semi- rigid tubing (NFE 49100)	mm			Ø 4
Weight		g	150	70	70

Dimensions 81 529 901







⟨£x⟩

Sub-bases for logic elements





Also available in ATEX version for use in poten-
tially explosive atmospheres in accordance with
94/9/EC Directive

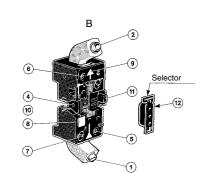
	81 532 104
Two-hand start module	● 1
Manostats - vacuostats	• 1
Leak sensor and amplifier relays	● 1
Logic elements AND Timers	• 1
Regulator accessories	● 1
Memory element	-
Operating temperature °C	-5 → +50
Electro-pneumatic miniature solenoid	● 1

81 532 102	
• 1	_
• 1	
● 1	
● 1	
● 1	
<u> </u>	<u> </u>
-5 → +50	·
• 1	

Characteristics				
Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100)		rotatable	rotatable	
Fixation		DIN rail 35 mm	DIN rail 35 mm	
Weight	g	56	52	

Connections elements and relays

Front connecting

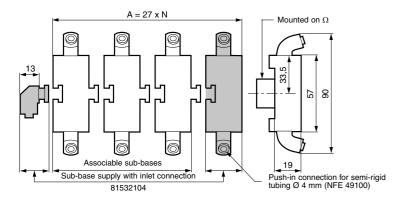


- A Single sub-base or end base
- B Associable sub-base
- 1 Input port (green port 1)
- 2 Output port (red port 3)
- 3 Input/supply port (yellow port 2) Ø 4
- 4 Input port integral to sub-base
- 5 Input indicator (green)
- 6 Output indicator (red)
- 7 1/4 turn screws
- 8 Marking tag
- 9 Arrow indicating flow direction
- 10 Mounting tongue
- 11 Mounting groove
- 12 Selector

Dimensions

81 532 104

3 x 81532102



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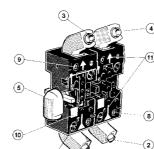




	81 542 002	81 532 001	81 531 001
Two-hand start module	<u> </u>	● 1	● 2
Manostats - vacuostats	_	● 1	● 2
Leak sensor and amplifier relays	<u> </u>	● 1	● 2
Logic elements AND Timers	<u> </u>	• 1	● 2
Regulator accessories	_	● 1	● 2
Memory element	● 1		• 1
Operating temperature °C	-5 → +50	-5 → +50	-5 → +50
Electro-pneumatic miniature solenoid	_	● 1	● 2

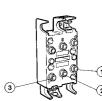
Caractéristiques				
Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100)		rotatable	rear	rear
Fixation		DIN rail 35 mm	2 M4 screws	Clips for rails Ø 8 mm
Weight	g	95	10	35

Memory element sub-base, front and rear connecting



- 1 Input port X1 (green port 1) 2 - Input port X0 (green port 1)
- 3 Output port X (red port 3)
- 4 Output port X (red port 3) 5 - Supply port (brass port 2)
- 7 1/4 turn screws
- 8 Input indicator
- 9 Output indicator
- 10 Marking tag
- 8 11 Arrow indicating the flow direction

Rear connection



The modular system elements are fixed with two screws on the sub-base.

A locating device on each logic element pre-

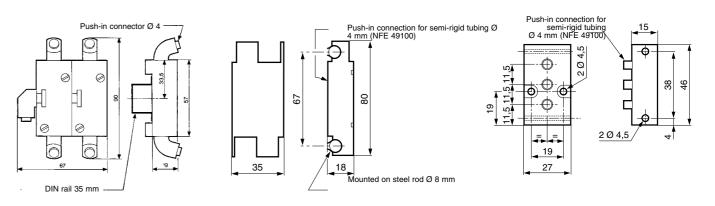
The logic element is connected via the sub-base. This sub-base has 3 instant connections for connecting semi-rigid tubes with outer \emptyset 4.

- 1 Input signal
- 2 Signal port for passive logic elements, air supply for active logic elements.
- 3 Output signal

81 542 002 (for memory 81523201/601)

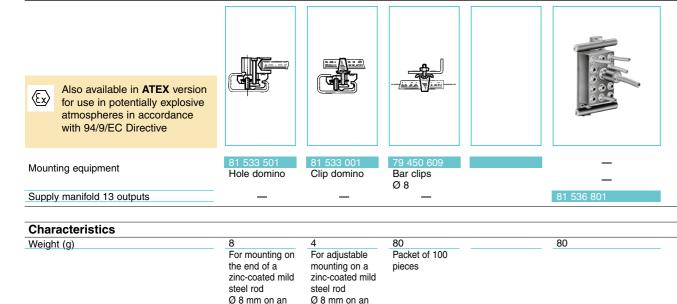
81 531 001

81 532 001



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Mounting accessories



asymmetrical

-5 **→** +50

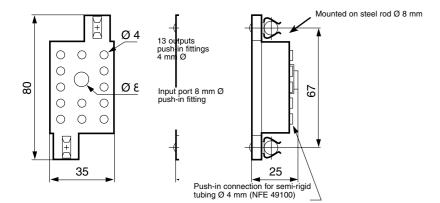
-5 → +50

DIN rail

-5 → +50

Dimensions 81 536 804

Operating temperature



asymmetrical

DIN rail

-5 → +50

Other information

Use Weidmuller plastic labels for marking components part number FW 4734-6.

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ATS-FM-34 ATS-FM-44 ATS-FM-M VSR-3 81501025 81525101 81529901 SSV66A141S1GP FSU12LF FSU34A FSU34LF FSU50A

FSU50LF FSU75A FSU75LF AWM1200V AWM2100V AWM2100VH AWM2150V AWM2200V AWM2300V AWM3100V

AWM3150V AWM3200V AWM3300V AWM3303V AWM42150VH AWM42300V AWM43300V AWM5101VA AWM5101VN

AWM5102VN AWM5103VN AWM5104VA AWM5104VC