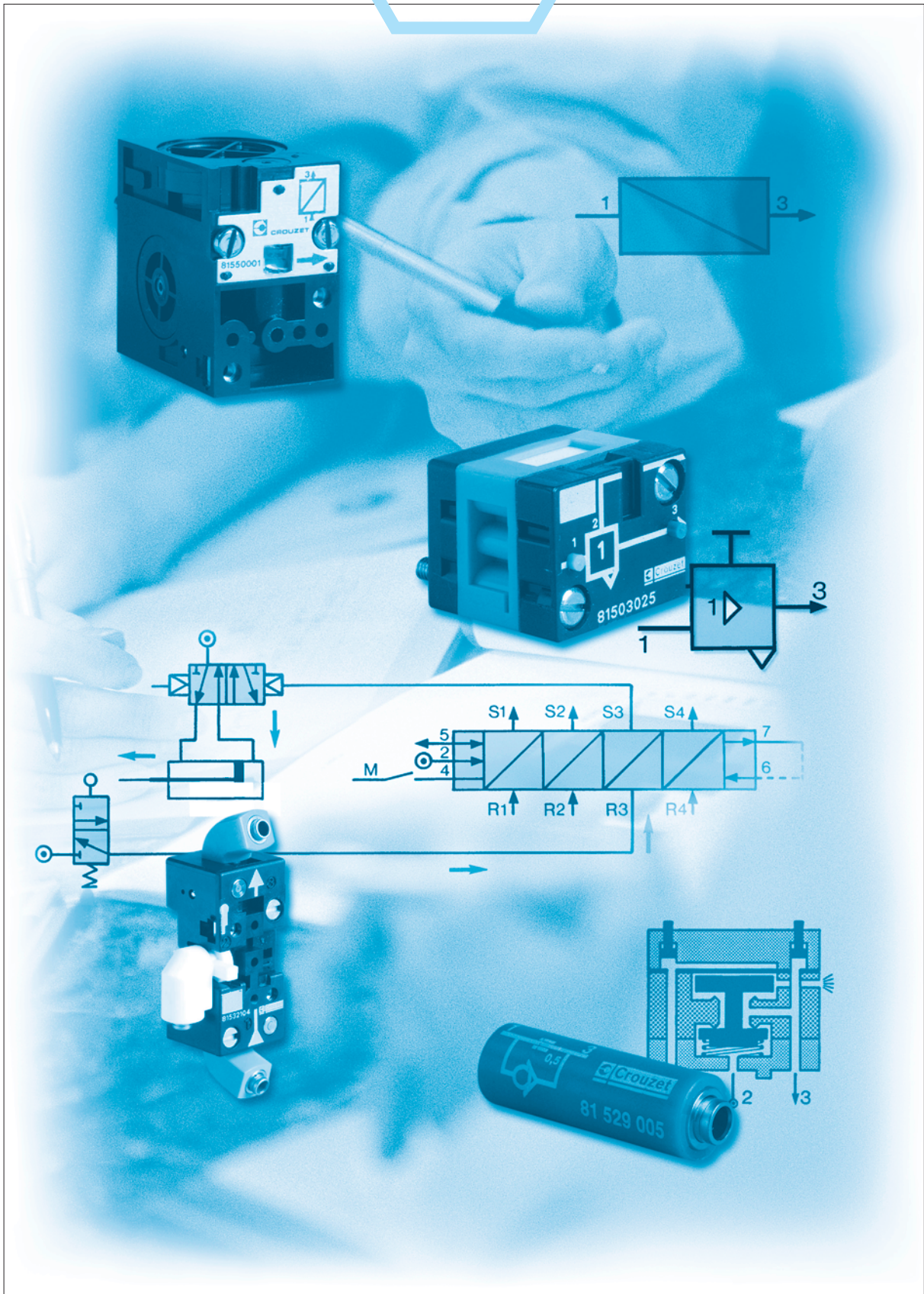


Pneumatic logic components



Visit our website for further information www.crouzet.com

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 \geq at 2.5 mm.

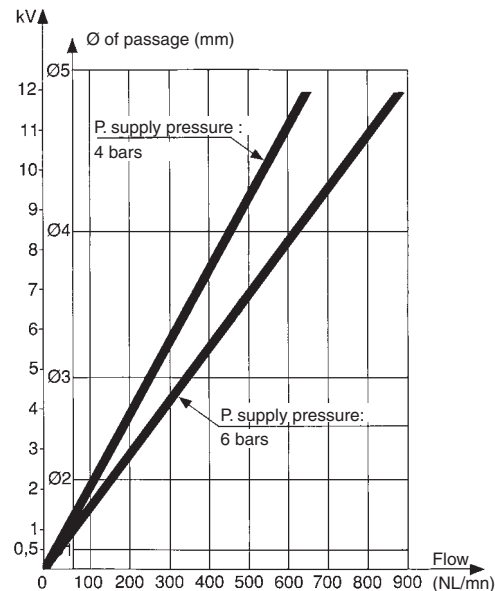
Mounting recommendations

- 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/kg.
- 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 bars.
- The flow in NI/min is the number of litres of air at normal atmospheric pressure obtained with the output open to atmosphere 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.

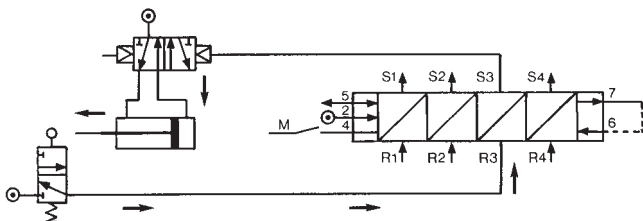
flow graphs



Sequencer modules

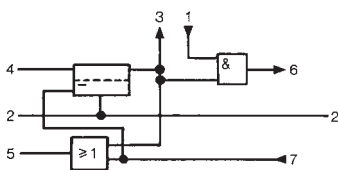
Operation results from the combination of a sequential cycle. A system comprises individual modules which are joined together by means of a sub-base. Each module has a memory which delivers an output signal and receives an input signal.

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



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 modules.

Function diagram

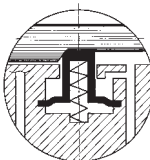


sequencer module with maintained reset

Brake

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

Module with auto reset



Brake

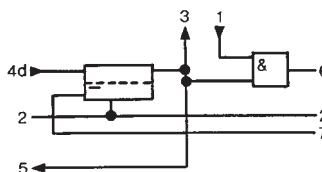
This returns the memory spool to the reset condition only when the supply is lost.

Shift register

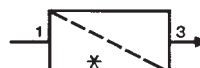
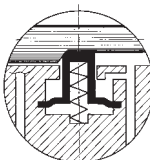
The general principle is to advance the sequencer step by command impulses to the inputs of the even steps, alternating with the command impulses to the inputs of the odd steps.

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



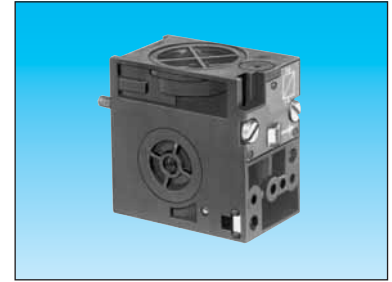
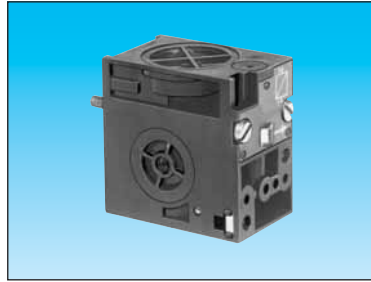
Auto reset sequencer module



Ex Sequencer modules

FILE No. C.PN.HOM.00009.FR
 INERIS No. 18409/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



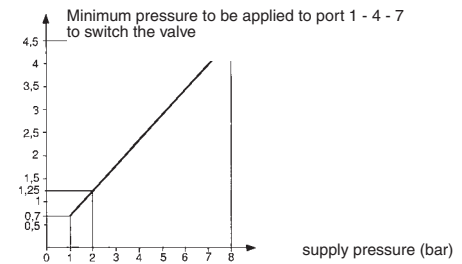
| | | | | | |
|----------------|-----------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|
| Versions | sequencer shift register | 81 550 013 with 'maintain' | 81 550 213 Reset to zero | 81 550 403 with 'maintain' | 81 550 603 Reset to zero |
| Classification | CE II 2 GD c IIB 65°C(T6) X | | | | |

Symbol



Characteristics

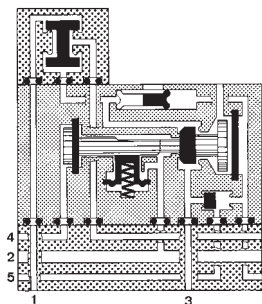
| | | | | | |
|---|--------|--------|--------|--------|--------|
| Operating pressure | bar | 2 • 8 | 2 • 8 | 2 • 8 | 2 • 8 |
| Orifice diameter | mm | 2.7 | 2.7 | 2.7 | 2.7 |
| Flow at 6 bars | Nl/min | 150 | 150 | 150 | 150 |
| Operating temperature | °C | -5 +50 | -5 +50 | -5 +50 | -5 +50 |
| Mechanical life 5 x 10 ⁶ at 6 bars | | • | • | • | • |
| Connection - Sub-base page 26 | | • | • | • | • |
| Weight | g | 70 | 70 | 70 | 70 |



Principle of operation

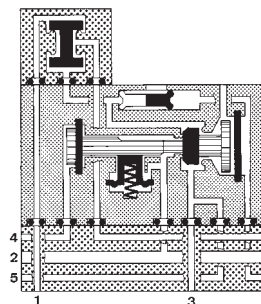
(supplied without logic element. For choice of units see page 28-29)

Sequencer module with maintained reset



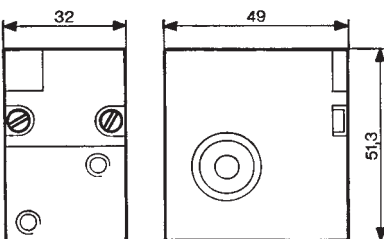
- 1 - Input signal
- 2 - Supply
- 3 - Output signal
- 4 - Start signal
- 5 - In cycle signal
- 6 - End of cycle signal
- 7 - Reset to zero signal

Shift register with maintained reset

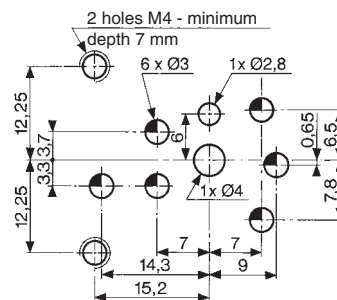


- 1 - Input signal
- 2 - Supply
- 3 - Output signal
- 4 - Start signal
- 5 - In cycle signal
- 6 - End of cycle signal
- 7 - Reset to zero signal

Dimensions



Mounting plan for sequencer

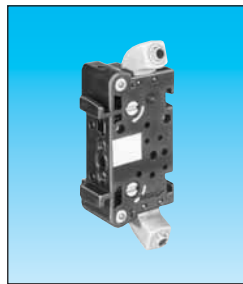


To order an Ex product, you must complete the form on page 53.

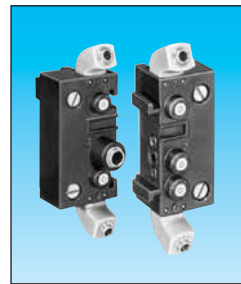
Ex Sequencer sub-bases

FILE No. C.PN.HOM.00009.FR
 INERIS No. 18409/05

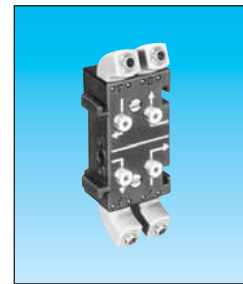
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



81 551 104
 Sub-base (DIN oméga)



81 552 105
 End bases - one pair



81 552 605
 Diversion base

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

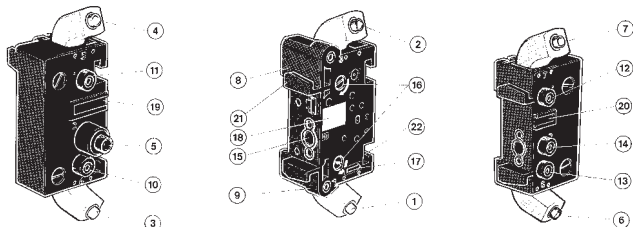
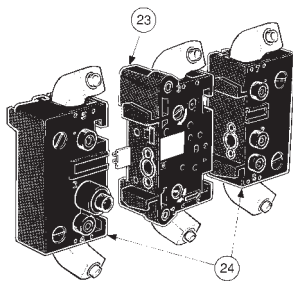
Classification **CE II 2 GD c IIB T6 X**

Characteristics

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

Sequencer connections

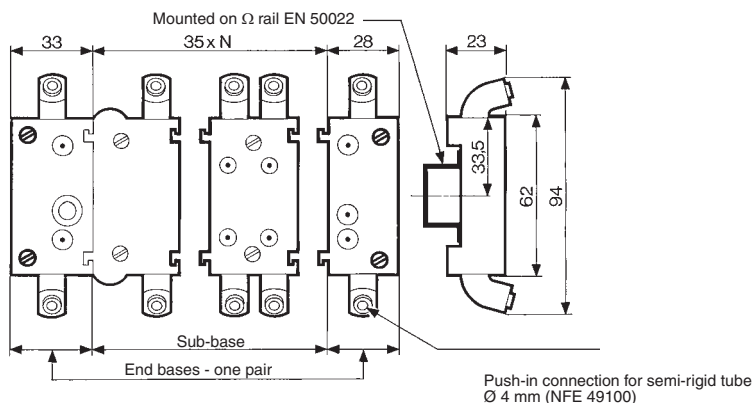
Front connecting



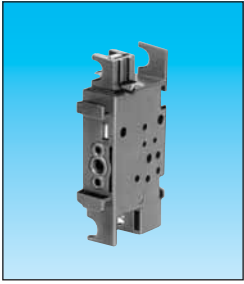
- 1 - Input port (green port 1) Ø 4
- 2 - Output port (red port 1) Ø 4
- 3 - Input port, cycle start (green port 1) Ø 4
- 4 - Output port, in-cycle signal (red port 1) Ø 4
- 5 - Output port, cycle end (red port 6) Ø 4
- 6 - Output port, cycle end (red port 6) Ø 4
- 7 - Input port, reset to zero (green 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



To order an Ex product, you must complete the form on page 53.



81 551 004

81 552 005

Sub-base (with clips)

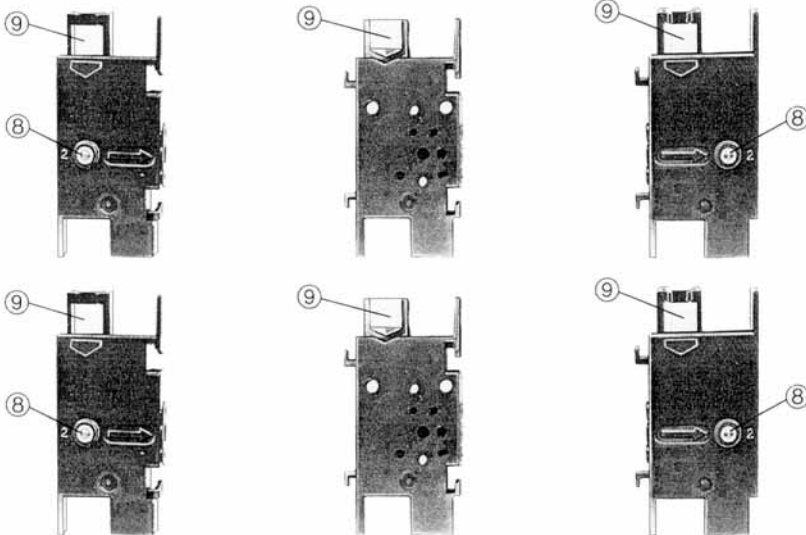
End bases - one pair

CE II 2 GD c IIB T6 X

-5 +50
40

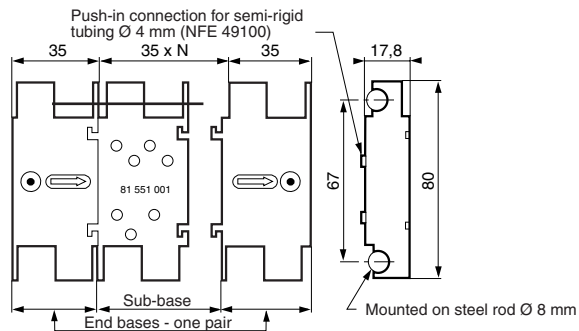
-5 +50
120

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

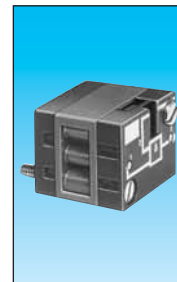
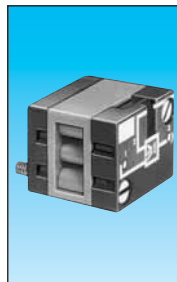
Rear connecting



To order an product, you must complete the form on page 53.

FILE No. C.PN.HOM.00007.FR
INERIS No. 18408/05

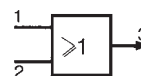
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



| | | | | | |
|-----------|-----|------------------------|-------------|-------------|------------------------|
| Functions | OR | 81 521 508 | 81 540 015 | 81 540 017 | 81 522 505 |
| | AND | — | — | — | — |
| | YES | — | — | — | — |
| | NO | — | — | — | — |
| Version | | On Sub-base page 36-37 | Plug-in Ø 4 | Plug-in Ø 6 | On Sub-base page 36-37 |

Classification **CE II 2 G D c IIB 65°C(T6) X**

Symbol



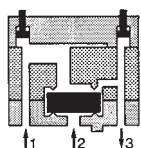
Characteristics

| | | | | | |
|--|----------------------|------------------|------------------|------------------|------------------|
| Push-in connection for semi-rigid tubing (NFE 49100) | Male/Female/Female | — | Ø 4 mm | — | — |
| | 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 | >10 ⁷ | >10 ⁷ | >10 ⁷ | >10 ⁷ |
| Weight | g | 25 | 12 | 25 | 25 |

Pilot/pressure curves

Pp : Pilot pressure
Pa : Supply pressure

Principle of operation

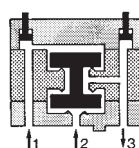


Cellule OR

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

$$S = a \text{ OR } b$$

$$S = a + b$$



Cellule AND

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

$$S = a \text{ AND } b$$

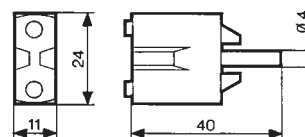
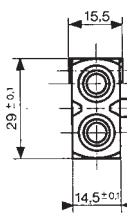
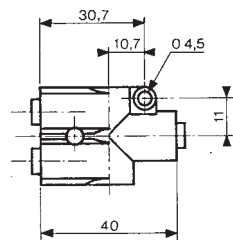
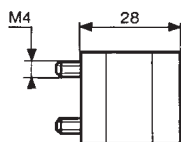
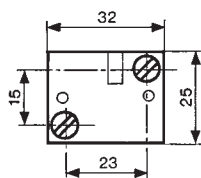
$$S = a \cdot b$$

Dimensions

81 521 508 - 81 522 505

81 540 017 - 81 541 017

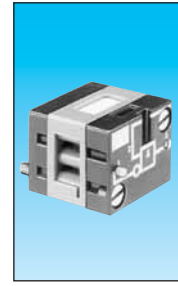
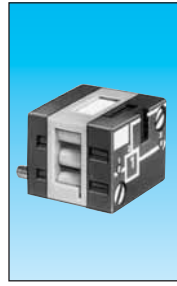
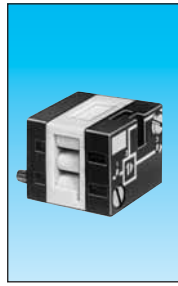
81 540 015 - 81 541 015



Other information

See page 36-37 for mounting plan for logic elements.

To order an Ex product, you must complete the form on page 53.



81 541 0015

81 541 017

81 501 031

81 503 028

81 504 035

81 506 027

Plug-in
Ø 4

Plug-in
Ø 6

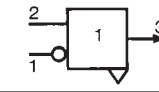
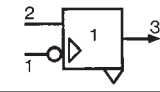
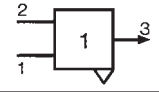
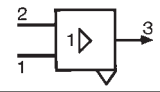
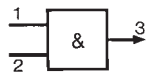
On sub-base
page 36-37

Threshold
On sub-base page
36-37

Threshold
On sub-base page
36-37

Threshold
On sub-base page
36-37

CE II 2 G D c IIB 65°C(T6) X



Ø 4 mm

Ø 6 mm

Yellow

Orange

Light grey

Dark grey

Green
2 • 8
2.7
150

Green
2 • 8
4
200

2 • 8
2.7
170

2 • 8
2.7
170

2 • 8
2.7
170

2 • 8
2.7
170

-5 +50
>10⁷
13

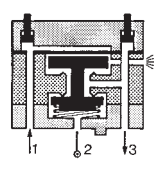
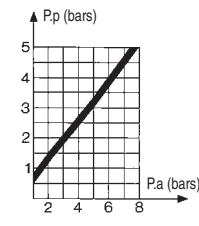
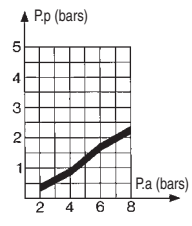
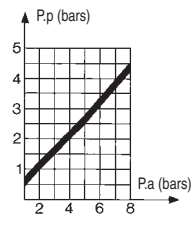
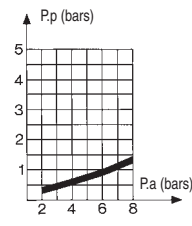
-5 +50
>10⁷
25

< 4
-5 +50
>10⁷
30

< 4
-5 +50
>10⁷
30

< 4
-5 +50
>10⁷
30

< 4
-5 +50
>10⁷
30

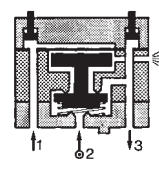


YES element

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

$S = a$ YES b

$S = a$



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:

$S = \bar{a}$

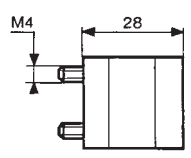
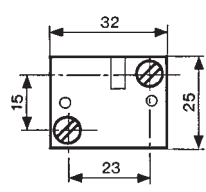
$S = \bar{a}$

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

$S = \bar{a} \text{ AND } b$

$S = \bar{a} \cdot b$

81 501 031 - 81 503 028
81 504 035 - 81 506 027

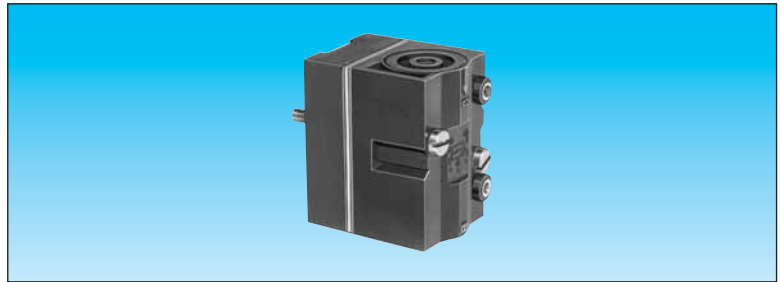


To order an product, you must complete the form on page 53.

Ex Memory element

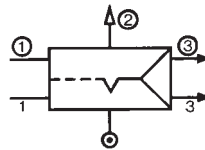
FILE No. C.PN.HOM.00004.FR
 INERIS No. 17564/04

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



| | | |
|----------------|---------------------------------------|---|
| Version | 81 523 205 With pressure indicator | 81 523 608 With pressure indicator and manual override |
| Classification | CE II 2 G D c IIB 55°C(T6) X | |

Symbol



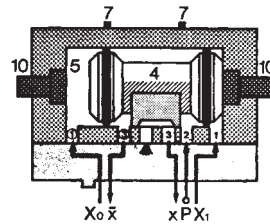
Characteristics

| | | | |
|-------------------------------------|--------|--------|--------|
| 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 36-37 | | ● | ● |
| Weight | g | 90 | 90 |

Principle of operation

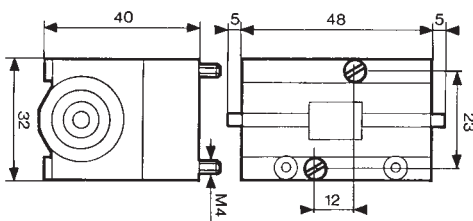
The function is that of a 4/2 valves. The appearance of signal "X1" causes the displacement of the slide valve. The output port "x" is then put under pressure. This state is remembered until the arrival of signal "X0". This signal reverses the slide valve, the output "x" is put under pressure. This state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

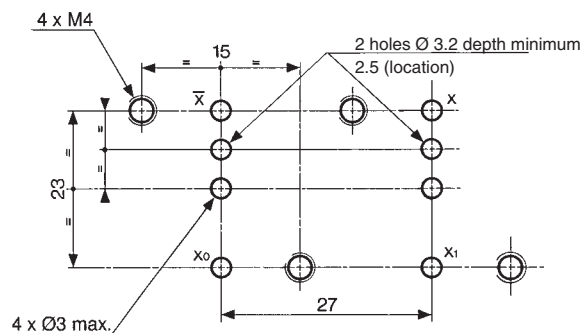


Dimensions

81 523 205 - 81 523 608



Dimensions of logic and memory elements



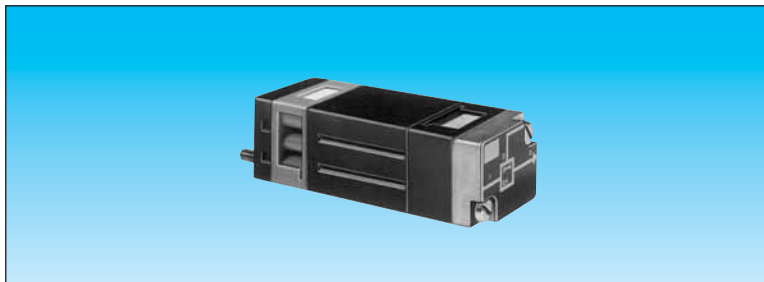
Viewed from above

To order an Ex product, you must complete the form on page 53.

Ex Timers (with fixed timing)

FILE No. C.PN.HOM.00008.FR
 INERIS No. 18410/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



Version

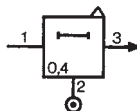
81 503 543

Classification

Positive output

CE II 2 G D c IIB 60°C(T6) X

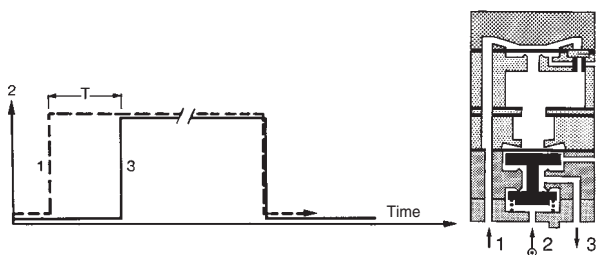
Symbol



Characteristics

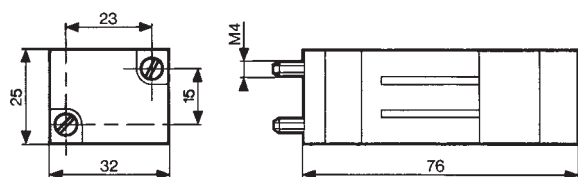
| | | |
|-------------------------------------|------------|------------------|
| Timing | s | 0.4 |
| Operating pressure | bar | 2 → 8 |
| Flow at 6 bars | NI/min | 170 |
| Orifice diameter | mm | 2.7 |
| Accuracy | % | ± 5 |
| Min. reset time | s | <0.1 |
| Connection - On sub-base page 36-37 | | ● |
| Operating temperature | °C | -5 +50 |
| Mechanical life | operations | >10 ⁷ |
| Weight | g | 106 |

Principle of operation
 with positive output



Dimensions

81 503 543

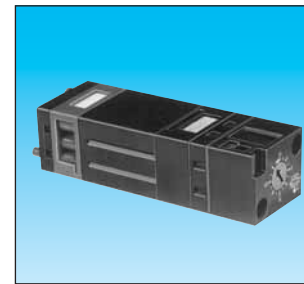
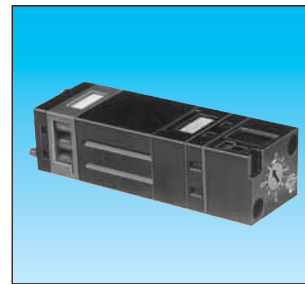
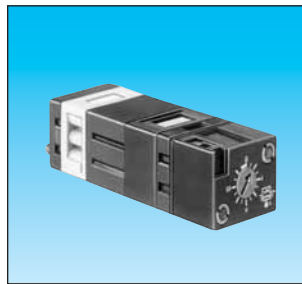


To order an Ex product, you must complete the form on page 53.

Ex Timers (with adjustable timing)

FILE No. C.PN.HOM.00008.FR
INERIS No. 18410/05

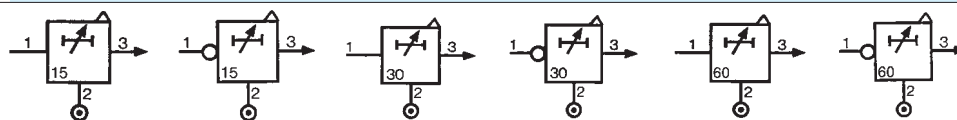
Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



| | | | | | | |
|-------------------|------------|------------|------------|------------|------------|------------|
| | 81 503 728 | 81 506 714 | 81 503 729 | 81 506 721 | 81 503 731 | 81 506 727 |
| Function positive | • | — | • | — | • | — |
| Function negative | — | • | — | • | — | • |

Classification **CE II 2 G D c IIB 60°C(T6) X**

Symbol



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 36-37 | | • | • | • | • | • | • |
| Operating temperature | °C | -5 +50 | -5 +50 | -5 +50 | -5 +50 | -5 +50 | -5 +50 |
| Mechanical life | operations | >10 ⁷ | >10 ⁷ | >10 ⁷ | >10 ⁷ | >10 ⁷ | >10 ⁷ |
| Weight | g | 90 | 90 | 100 | 100 | 120 | 120 |

Accessories

| | | | | | | | |
|------------------------|---|------------|------------|------------|---|---|---|
| Panel mounting adaptor | | 79 451 698 | 79 451 698 | 79 451 903 | — | — | — |
| Weight | g | 53 | 53 | 53 | — | — | — |

Principle

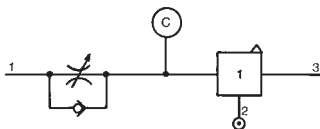
The operation of these pneumatic timers is similar to that of electronic timers (circuit with capacitor/resistor)

Principle of operation

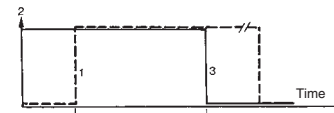
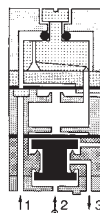
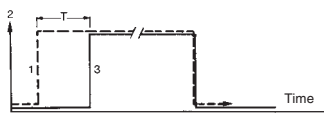
with positive output

with negative output

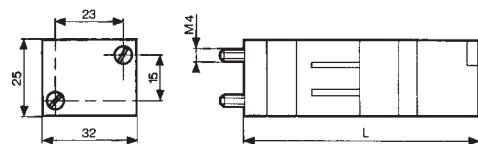
Timing by charging of reservoir



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.

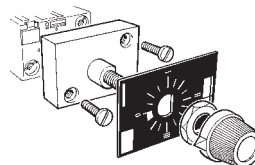
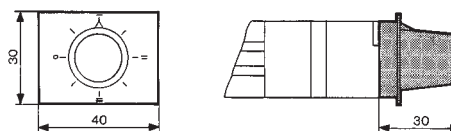


Dimensions



| | |
|-------------------------|--------|
| | L (mm) |
| 81 503 728 - 81 506 714 | 78 |
| 81 503 729 - 81 506 721 | 92 |
| 81 503 731 - 81 506 727 | 125 |

Adaptator 79 451 ...

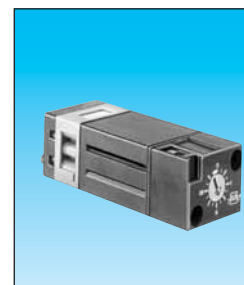


For panel mounting, a pre-drilled hole Ø 10.5 mm si required

To order an Ex product, you must complete the form on page 53.

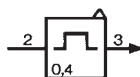
FILE No. C.PN.HOM.00008.FR
 INERIS No. 18410/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



| | | | | |
|--------------------------------|------------------------------|------------|------------|------------|
| Single impulse generator | Fixed | 81 507 543 | — | — |
| | Adjustable | — | 81 507 724 | — |
| Adjustable frequency generator | | — | — | 81 506 945 |
| Classification | CE II 2 G D c IIB 60°C(T6) X | | | |

Symbol



Characteristics

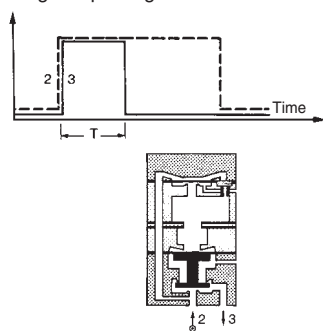
| | | | | |
|-------------------------------------|------------|------------------|------------------|------------------|
| Timing | s | 0.4 | 0.1 → 30 | — |
| Frequency | Hz | — | — | 0.02 → 8 |
| Operating pressure | bar | 2 → 8 | 2 → 8 | 2 → 8 |
| Flow at 6 bars | Nl/min | 170 | 170 | 170 |
| Orifice 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 36-37 | | ● | ● | ● |
| Operating temperature | °C | -5 +50 | -5 +50 | -5 +50 |
| Mechanical life | operations | >10 ⁷ | >10 ⁷ | >10 ⁷ |
| Weight | g | 106 | 180 | 85 |

Accessories

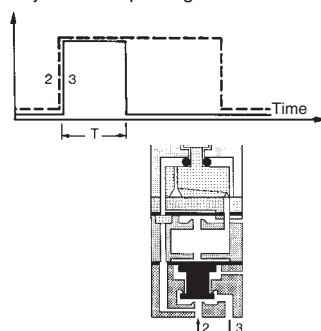
| | | | |
|---------------------------|---|------------|------------|
| Panel mounting adaptators | — | 79 451 904 | 79 451 905 |
| Weight (g) | — | 53 | 53 |

Principle of operation

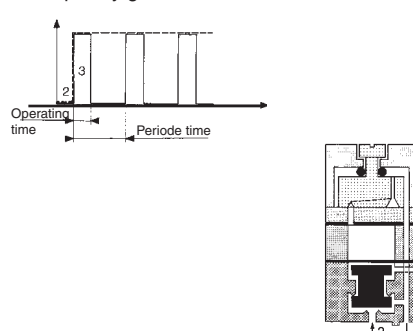
Single impulse generator



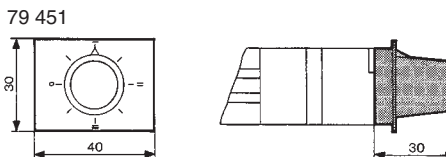
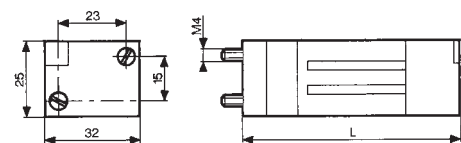
Adjustable impulse generator



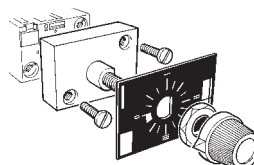
Frequency generator



Dimensions



| | |
|--------------|--------|
| Part numbers | L (mm) |
| 81 507 543 | 73 |
| 81 507 724 | 99 |
| 81 506 945 | 72 |



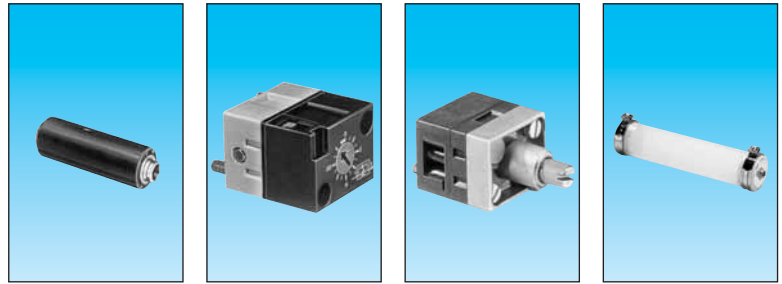
For panel mounting, a pre-drilled hole Ø 10.5 mm si required

To order an Ex product, you must complete the form on page 53.

Ex Timers components

FILE No. C.PN.HOM.00008.FR
INERIS No. 18410/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



One-way in-line fixed flow restrictors

Flow at 4 bars Nm^3/h \varnothing orifice (mm)

| | | |
|-------------|------|--------|
| 0.18 → 0.30 | 0.3 | white |
| 0.35 → 0.50 | 0.4 | yellow |
| 0.58 → 0.77 | 0.5 | red |
| 0.80 → 1.06 | 0.6 | green |
| 1.10 → 1.39 | 0.7 | blue |
| 1.45 → 1.65 | 0.8 | grey |
| 2.30 → 2.80 | 1 | black |
| 0.08 → 0.12 | 0.25 | white |

| | | | |
|------------|---|---|---|
| 81 529 013 | — | — | — |
| 81 529 014 | — | — | — |
| 81 529 015 | — | — | — |
| 81 529 016 | — | — | — |
| 81 529 017 | — | — | — |
| 81 529 018 | — | — | — |
| 81 529 020 | — | — | — |
| 81 529 026 | — | — | — |

One-way adjustable flow restrictor

Capacity for timing 10 • 60 s

81 525 106

81 526 006

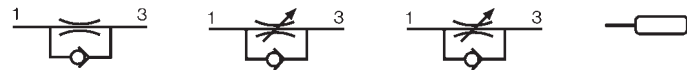
70 458 018

Classification

CE II 2 G D c IIB 60°C(T6) X

CE II 2 G D c IIB 90°C(T5) X

Symbol



Characteristics

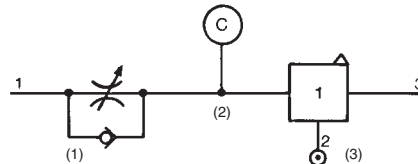
| | | | | | |
|-----------------------|---|----------------------|---------|---------|---------|
| Free flow | Nl/min | Depending on orifice | 30 | 200 | — |
| Orifice diameter | mm | Depending on orifice | 0 → 0.5 | 0 → 1.7 | — |
| Operating pressure | bars | 1 → 8 | 1 → 8 | 2 → 8 | — |
| Timing | s | — | — | — | 10 → 60 |
| Capacity | cm ³ | — | — | — | 30 |
| Connection | Sub-base page 36-37 Push-in connection for semi-rigid tubing (NFE 49100) | mm | Ø 4 | — | Ø 4 |
| Operating temperature | °C | -5 +50 | -5 +50 | -5 +50 | -5 +50 |
| Weight | g | 8 | 60 | 70 | 40 |

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 28-29

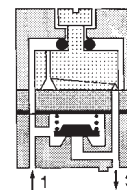
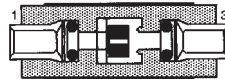
Sub-base page 36-37



Principle of operation

One-way with fixed flow

One-way with adjustable flow



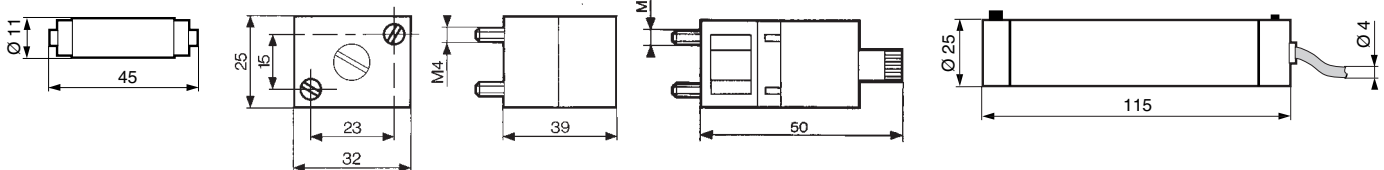
Dimensions

81 529

81 525 106

81 526 006

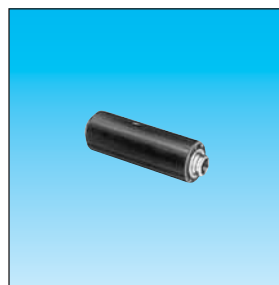
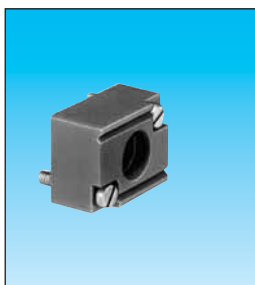
70 458 018



To order an Ex product, you must complete the form on page 53.

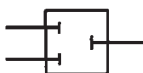
FILE No. C.PN.HOM.00008.FR
 INERIS No. 18410/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



| | | |
|--------------------|------------------------|------------------------------|
| Plug element | 81 520 602 | — |
| In-line non-return | — | 81 529 907 |
| Classification | CE II 2 G D c IIB T6 X | CE II 2 G D c IIB 60°C(T6) X |

Symbol



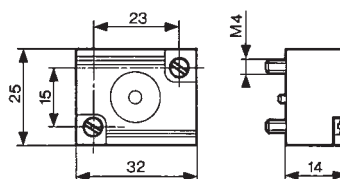
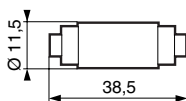
Characteristics

| | | | |
|----------------------------|---|--------|--------|
| Operating pressure | bars | — | 2 → 8 |
| Flow at 6 bars | NI/min | — | 200 |
| Adjustable output pressure | bar | — | — |
| Connection | Sub-base page 36-37 Push-in connection for semi-rigid tubing (NFE 49100) | ● | Ø 4 |
| Operating temperature | °C | -5 +50 | -5 +50 |
| Weight | g | — | — |

Dimensions

81 529 907

81 520 602



To order an **Ex** product, you must complete the form on page 53.

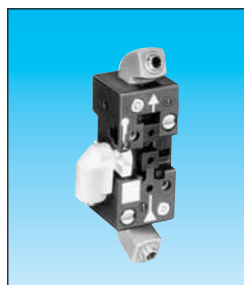
Ex Sub-bases for logic elements and relays

FILE No. C.PN.HOM.00007.FR
 INERIS No. 18408/05
 for 81 532 111, 81 532 109
 and 81 532 009

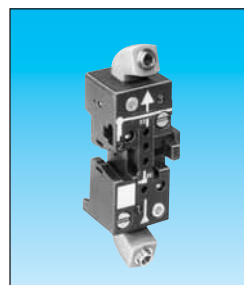
FILE No. C.PN.HOM.00004.FR
 INERIS No. 17564/04
 for 81 542 004

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC

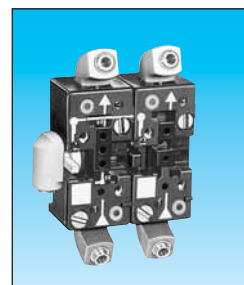
| |
|---|
| Two-hand start module (page 12) |
| Manostats - vacuostats (page 18-19) |
| Leak sensor and amplifier relays (page 20-21) |
| Logic elements AND Timers (page 29-31-32-33-34) |
| Regulator accessories (page 35) |
| Memory element (page 30) |
| Operating temperature °C |
| Electro-pneumatic miniature solenoid (page 43) |



| |
|------------|
| 81 532 111 |
| ● 1 |
| ● 1 |
| ● 1 |
| ● 1 |
| ● 1 |
| — |
| -5 +50 |
| ● 1 |



| |
|------------|
| 81 532 109 |
| ● 1 |
| ● 1 |
| ● 1 |
| ● 1 |
| ● 1 |
| — |
| -5 +50 |
| ● 1 |



| |
|------------|
| 81 542 004 |
| — |
| — |
| — |
| — |
| — |
| ● 1 |
| -5 +50 |
| — |

NB: The number indicates the number of components mounted on the sub-base

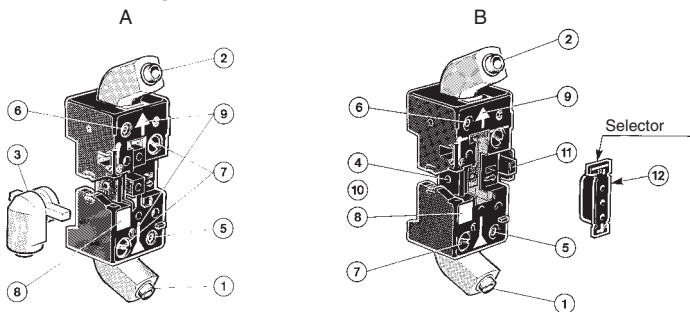
| | | |
|----------------|------------------------|------------------------|
| Classification | CE II 2 G D c IIB T6 X | CE II 2 G D c IIB T6 X |
|----------------|------------------------|------------------------|

Characteristics

| | | | |
|--|----------------------------|----------------------------|----------------------------|
| Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100) | rotatable | rotatable | rotatable |
| Fixation | DIN rail 35 mm EN 50022 | DIN rail 35 mm EN 50022 | DIN rail 35 mm EN 50022 |
| Weight g | 56 | 52 | 95 |

Connections elements and relays

Front connecting

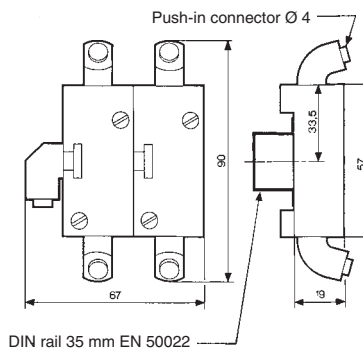
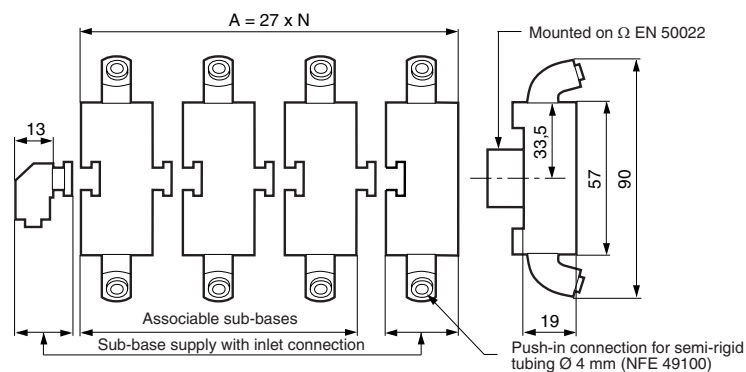


- A - Single sub-base or end base
- B - Associable sub-base
- 1 - Input port (green port 1)
- 2 - Output port (red port 3)
- 3 - Input/supply port (yellow port 2) Ø 4
- 4 - Input port integral to sub-base
- 5 - Input indicator (green)
- 6 - Output indicator (red)
- 7 - 1/4 turn screws
- 8 - Marking tag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

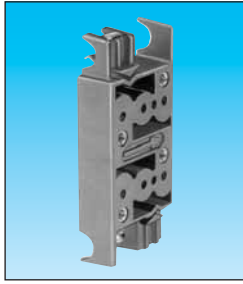
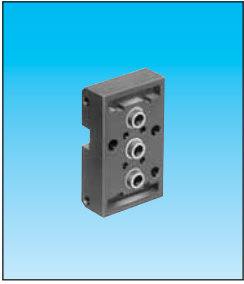
Dimensions

81 532 109 - 81 532 111

81 542 004



To order an Ex product, you must complete the form on page 53.



81 532 009

| |
|--------|
| ● 1 |
| ● 1 |
| ● 1 |
| ● 1 |
| ● 1 |
| — |
| -5 +50 |
| ● 1 |

81 531 008

| |
|--------|
| ● 2 |
| ● 2 |
| ● 2 |
| ● 2 |
| ● 2 |
| ● 1 |
| -5 +50 |
| ● 2 |

CE II 2 G D c IIB T6 X

rear

2 M4 screws

10

CE II 2 G D c IIB T6 X

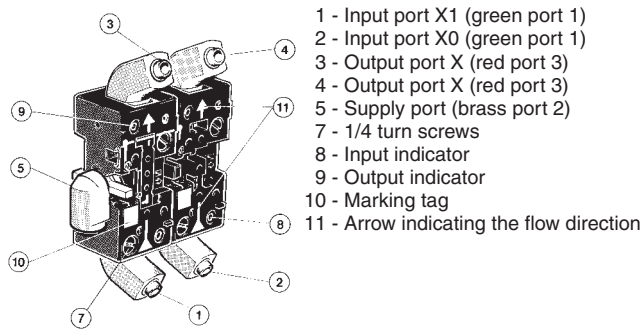
rear

Clips for rails
Ø 8 mm

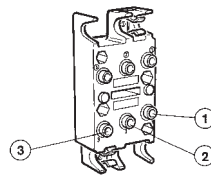
35

Memory element sub-base, front and rear connecting

Rear connection



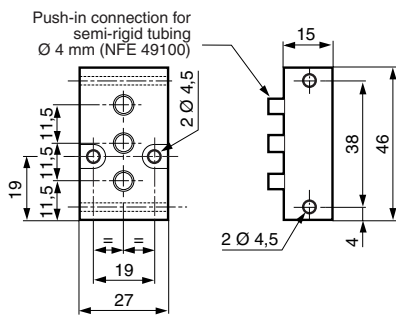
- 1 - Input port X1 (green port 1)
- 2 - Input port X0 (green port 1)
- 3 - Output port X (red port 3)
- 4 - Output port X (red port 3)
- 5 - Supply port (brass port 2)
- 7 - 1/4 turn screws
- 8 - Input indicator
- 9 - Output indicator
- 10 - Marking tag
- 11 - Arrow indicating the flow direction



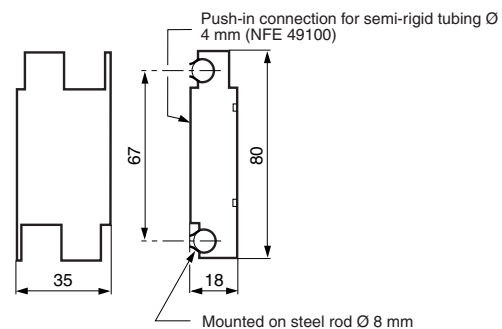
The modular system elements are fixed with two screws on the sub-base. A locating device on each logic element prevents incorrect assembly. The logic element is connected via the sub-base. This sub-base has 3 instant connections for connecting semi-rigid tubes with outer Ø 4.

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

81 532 009



81 531 008

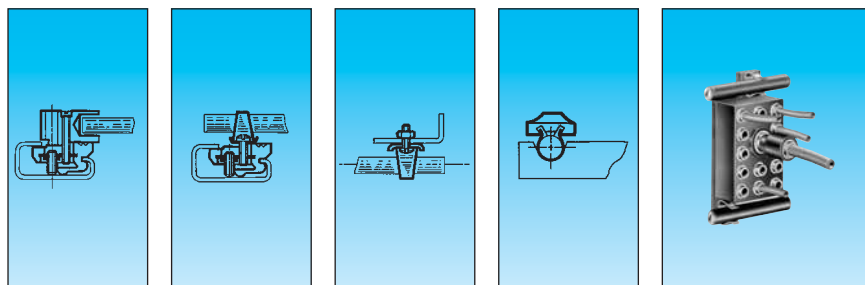


To order an product, you must complete the form on page 53.

Ex Mounting accessories

FILE No. C.PN.HOM.00007.FR
 INERIS No. 18408/05

Equipment intended for use in potentially explosive atmospheres conforming to Directive 94/9/EC



| | | | | | |
|----------------------------|---------------------------|---------------------------|--------------------------------|----------------------------|------------|
| Mounting equipment | 81 533 501 Hole domino | 81 533 001 Clip domino | 79 450 609 Bar clips Ø 8 | 79 450 618 Looking clip | — — |
| Supply manifold 13 outputs | — | — | — | — | 81 536 804 |

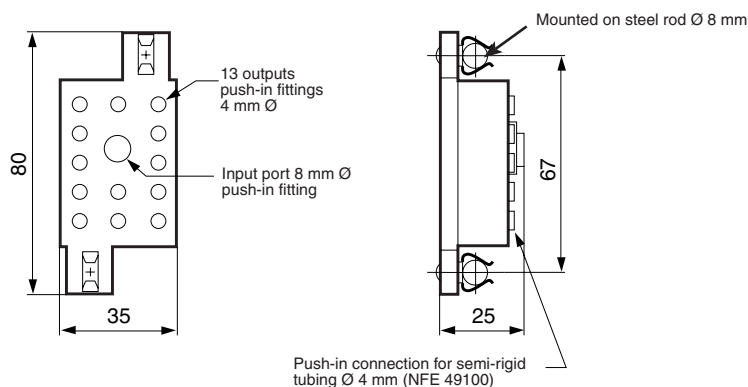
Classification CE II 2 G D c IIB T6 X

Characteristics

| | | | | | |
|--------------------------|--|--|----------------------------|----------------------------|--------|
| Weight (g) | 8 For mounting on the end of a zinc-coated mild steel rod Ø 8 mm on an asymmetrical DIN rail | 4 For adjustable mounting on a zinc-coated mild steel rod Ø 8 mm on an asymmetrical DIN rail | 80 Packet of 100 pieces | 40 Packet of 100 pieces | 80 |
| Operating temperature °C | -5 +50 | -5 +50 | -5 +50 | -5 +50 | -5 +50 |

Dimensions

81 536 804



Other information

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

To order an Ex product, you must complete the form on page 53.

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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