

GENERAL

Fluid

Operating pressure

Ambient temperature

Orifice

Flow (Q_v at 6 bar)

Switching time

Mechanical life (at 6 bar)

Logic elements

Air or neutral gas filtered, lubricated or not

2 to 8 bar

-5°C to +50°C

Ø 2,7 mm

200 l/min (ANR)

3 ms

> 10⁷ cycles

Memory relay

0 to 12 bar

-10°C to +60°C

Ø 4 mm

280 l/min (ANR)

12 ms

> 10⁷ cycles

OR LOGIC ELEMENT

(Logical sum)

Operation :


Output signal «3» is present

when a pressure signal «1»

OR «2» is present (or both

simultaneously).

$$3 = 1 + 2$$

OR logic element			
catalogue number	standard	ATEX (1)	
	33100053	33101053	
dim. H* (mm)	45		
weight (kg)	0,025		
CE			

* dimension H, see page: 7

AND LOGIC ELEMENT

(logical product)


Operation :

The output signal «3» can only be

présent if pressure signals «1» AND

«2» are simultaneously present.

$$3 = 1 \cdot 2$$

AND logic element			
catalogue number	standard	ATEX (1)	
	33100054	33101054	
dim. H* (mm)	45		
weight (kg)	0,025		
CE			

* dimension H, see page: 7

YES LOGIC ELEMENT

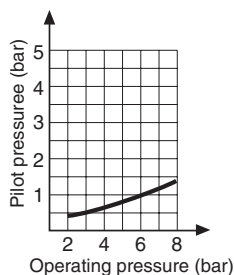
(logical identity)


Operation :

The output signal «3» is present if

control signal «1» is present

$$3 = 1$$



YES logic element			
catalogue number	standard	ATEX (1)	
	33100055	33101055	
dim. H* (mm)	45		
weight (kg)	0,025		
CE			

* dimension H, see page: 7

NOT LOGIC ELEMENT AND PRESSURE DELAY END OF STROKE RELAY

(logical negation)

Operation :

If control signal «1» is not present,

output port «3» is pressurized. The

output signal thus inverts the control

signal :

$$3 = \text{NOT } 1$$

$$3 = \bar{1}$$

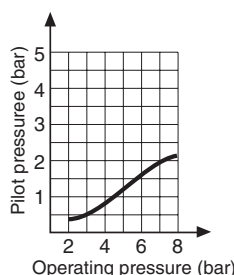
If the signal of a variable is connected


to port «2», the obtained function is

called **inhibit** :

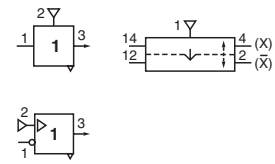
$$3 = 2 \text{ NAND } 1$$

$$3 = 2 \cdot \bar{1}$$



NOT logic element			
catalogue number	standard	ATEX (1)	
	33100056	33101056	
dim. H* (mm)	45		
weight (kg)	0,025		
CE			

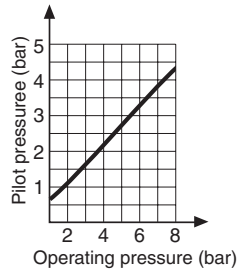
* dimension H, see page: 7



RELAY WITH POSITIVE OUTPUT THRESHOLD (YES with threshold)

Operation :

The output signal «3» is present when the pressure from input signal «1» has reached the relay switch threshold.



YES at threshold (+ output)			
catalogue number	standard	ATEX (1)	
	33300043	33301043	
dim. H* (mm)	45		
weight (kg)	0,025		

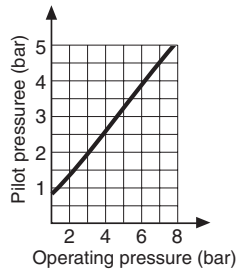
* dimension H, see page: 7

RELAY WITH NEGATIVE OUTPUT THRESHOLD (NO with threshold)

Operation :

The output signal «3» disappears when the pressure from input signal «1» has reached the relay switch threshold.

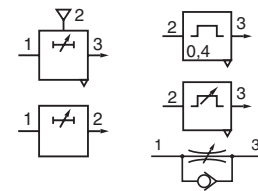
This signal is present when input signal «1» disappears («2» = supply pressure).



NO at threshold (- output)			
catalogue number	standard	ATEX (1)	
	33300044	33301044	
dim. H* (mm)	45		
weight (kg)	0,025		

* dimension H, see page: 7

(1) Version intended for use in potentially explosive atmospheres caused by gases, vapours, mists an/or dusts - ATEX directive 2014/34/EU
Classification : II 2GDc IIB T6X



GENERAL

Fluid
Ambient temperature
Operating pressure
Orifice
Flow (Qv at 6 bar)
Accuracy at constant pressure
Reset time

Relay - logic element interface

Compressed air or neutral gas filtered, lubricated or not
-5°C to +50°C
2 to 8 bar
Ø 2,7 mm
170 l/min (ANR)
± 5 %

Relay - CNOMO interface

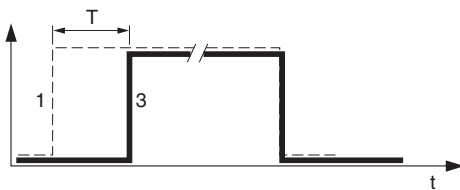
-5°C to +50 °C
3 to 10 bar
-
150 l/min (ANR)
± 10 %

0,1 s w/ 20 cm of flexible tube w/ OD Ø 4 exterior

ADJUSTABLE TIMER RELAY

0 - 15 s and 0 - 30 s (logic element interface)

These 2 relays deliver a delayed output signal «3» compared to input signal «1».

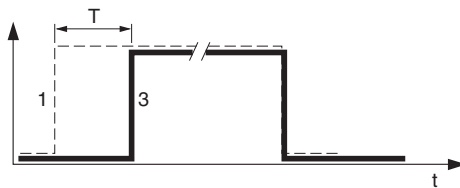


adjustable timer			
	Standard	ATEX (1)	
catalogue number	(0-15 s)	33300046	33301046
	(0-30 s)	33300047	33301047
dim. H* (mm)	97 (0-15 s)		
	111 (0-30 s)		
weight (kg)	0,090 (0-15 s)		CE
	0,100 (0-30 s)		

* dimension H, see page: 7

ADJUSTABLE TIMER RELAY 0 - 15 s (CNOMO interface - LT type)

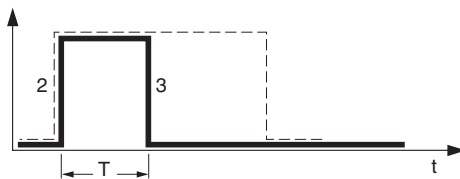
Delayed output signal «3» compared to input signal «1».
CNOMO 06.05.80 interface



adjustable timer (0-15 s)			
catalogue number	34600012		
Dimensions	see page: 8		
Weight (kg)			

PULSE GENERATORS (logic element interface)

Converts a maintained signal «2» into a pulse «3» with a fixed duration (T = 0,4 s) or adjustable.



pulse generator			
	fixed	adjustable	
catalogue number	standard	ATEX (1)	standard
	33300027	33301027	33300072
dim. H* (mm)	92		118
weight (kg)	0,106		0,180

* dimension H, see page: 7

ADJUSTABLE ONE-WAY FLOW REGULATORS (logic element interface)

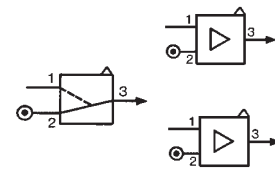
- ① Simple flow regulator :
 - operating pressure : 2 à 8 bar
 - max. flow adjustment : 0 à 130 l/min (ANR)
- ② Sensitive flow regulator :
 - operating pressure : 1 to 8 bar
 - max. flow adjustment : 0 to 30 l/min (ANR)
w/ one turn of screw.

flow regulators			
catalogue number	simple	sensitive	
	33300036	33300048	
dim. H* (mm)	69	58	
weight (kg)	0,070	0,060	

* dimension H, see page: 7

(1) Version intended for use in potentially explosive atmospheres caused by gases, vapours, mists an/or dusts - ATEX directive 2014/34/EU

Classification : II 2GDC IIB T6X



GENERAL

Fluid
Operating pressure
Ambient temperature
Orifice
Flow (Qv à 6 bar)
Hysteresis
Mechanical life (at 6 bar)

Leak sensor relay	Amplifier relays
Air or neutral gas, filtered, lubricated or not	
2 to 8 bar	2 to 6 bar
-5°C to +50°C	-5°C to +50°C
Ø 2,5 mm	Ø 2,5 mm
5 l/min (ANR)	6 l/min (ANR)
-	< 5% of pilot pressure
> 10 ⁷ cycles	3 x 10 ⁶ cycles

LEAK SENSOR RELAY (logic element interface) (positive output)

Operation :
Relay designed to supply air to [a leak sensor](#).
The relay and leak sensor unit allows detecting the presence of a part by shutting off the bleed at the sensor.

leak sensor relay		
catalogue number	33300022	
dim. H* (mm)	53	
weight (kg)	0,035	

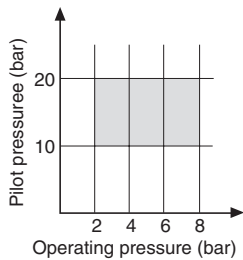
* dimension H, see page: 7

SIMPLE AMPLIFIER RELAY (logic element interface)

Operation :
Relay designed to supply air to [a proximity or gap sensor](#).
An output signal at normal industrial pressure is delivered on a low pressure input.

simple amplifier relay		
catalogue number	33300019	
dim. H* (mm)	77	
weight (kg)	0,150	

* dimension H, see page: 7

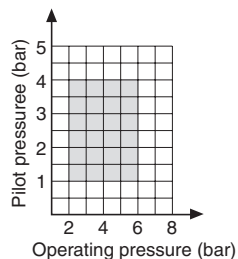


SENSITIVE AMPLIFIER RELAY (logic element interface)

Operation :
An output signal at normal industrial pressure is delivered on a very low pressure input.
Relay designed to supply air to [a proximity or gap sensor](#).

sensitive amplifier relay		
catalogue number	33300020	
dim. H* (mm)	92	
weight (kg)	0,186	

* dimension H, see page: 7

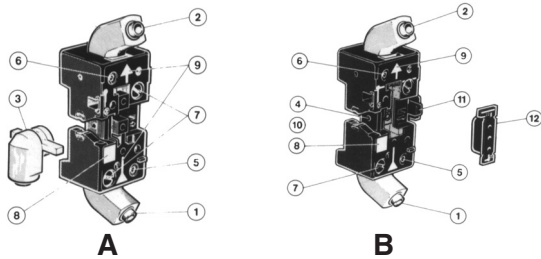


SUBBASES FOR LOGIC ELEMENTS AND OTHER COMPONENTS

Logic elements, relays, and components with logic element interface can be mounted on two types of subbases :

- Simple subbase (or end plate if mounted with joinable subbases)
- Joinable subbases (equipped with a connection selector for integrated wiring)

These subbases are equipped with rotatable instant fittings and can be fitted on an Omega EN 50022 symmetrical DIN rail.



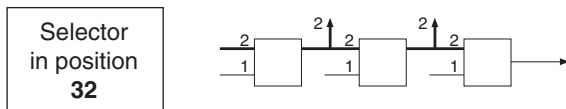
- A - Simple subbase or pair of end plates.
- B - Joinable subbase.
- 1 - Input port (1, green).
- 2 - Output port (3, red).
- 3 - Input or pressurized port (2, yellow) OD Ø 4 mm.
- 4 - Input port inside subbase.
- 5 - Input pressure indicator (green).
- 6 - Output pressure indicator (red).
- 7 - 1/4-turn attaching screw.
- 8 - Marking area.
- 9 - Arrow indicating fluid flow direction.
- 10 - Mortise assembly.
- 11 - Tenon assembly.
- 12 - Selector

NOTE : Subbases are equipped with 360°-rotatable instant fittings and are particularly accessible due to front-end wiring. Tubes are connected to the left- or right and sides of the subbase, significantly reducing space requirements.

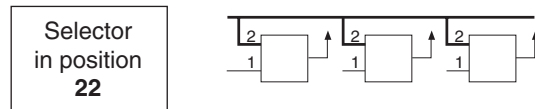
CONNECTION SELECTOR

The connection selector delivered with each joinable subbase can be positioned for the following two functions :

IN-SERIES WIRING (with bypass)



IN-PARALLEL WIRING



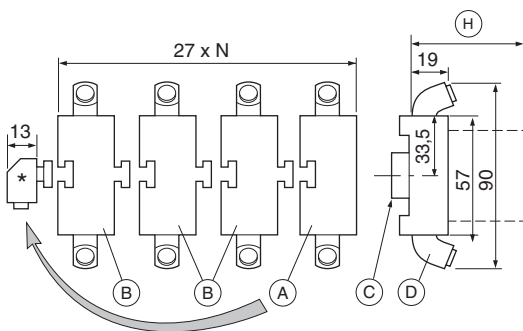
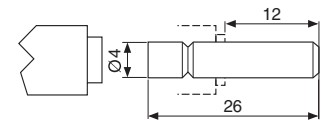
SPECIFICATIONS

description	catalogue number	
	standard	ATEX (1)
simple subbase (or end plate)	35900019	35901019
joinable subbase	35900021	35901021

NOTE : To mount a set of N components, «N - 1» joinable subbases (35900021) + 1 simple subbase (end of plate) (35900019).

ACCESSORIES

description	catalogue number
set of 10 plugs L3126 04 00 (OD Ø 4 mm)	33400015



- (A) - Simple subbase / end plates.
- (B) - Joinable subbases.
- (C) - Omega symmetrical DIN rail.
- (D) - Rotatable instant fittings for flexible tube OD Ø 4 mm.
- (H) - Height with component.
- N - Number of subbases.

weight simple subbase : 0,056 kg
weight joinable subbase : 0,056 kg

* The yellow rotatable instant fitting delivered with the simple subbase (end plate) is mounted at the ends of the joinable subbases.

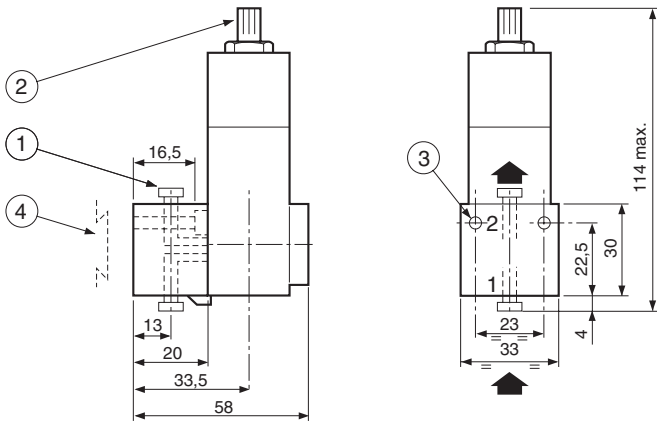
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Classification : II 2GDc IIB T6X

ADJUSTABLE TIMER RELAY (CNOMO) - SUBBASE

SPECIFICATIONS

description	catalogue number
simple subbase - with OD Ø 4 mm fittings (polyamide 6/6)	35300069
simple subbase - G1/4 tapped (zamak)	35300049



Subbase 35300069

- ① Connection with fittings for flexible tube w/ OD Ø 4 mm.
- ② Timing set control
- ③ 2 attaching holes Ø 3,5. filed Ø 6,5 mm depth 3,5 mm.
- ④ Mounting clips on Omega EN 50022 symmetrical DIN rail

(Set of 10, catalogue number [33400036](#))

Weight (subbase + timer relay): 0,280 kg

Subbase 35300049

- ① G1/4 tapped connection
- ② 2 attaching holes Ø 4,5. filed Ø 8 mm depth 6 mm.

Weight (subbase + timer relay): 0,394 kg

