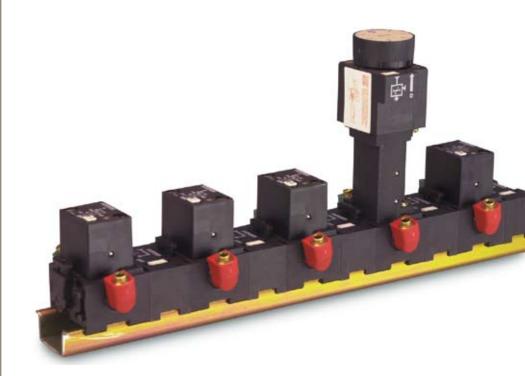




aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





# Logic processing

Catalogue PDE2619TCUK May 2009







#### Important!

Before carrying out any service work, ensure that the valve and manifold have been vented. Remove the primary supply air hose to ensure total disconnection of the air supply before dismantling valves or blank connection blocks.



All technical data in this catalogue is typical only.

The air quality is decisive for the valve life: see ISO 8573.



FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

#### **SALE CONDITIONS**

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).



Summary	Page
Summary	3
Presentation	4 - 8
ATEX products	9 -11
Panorama - Operating informations	12 - 13
Specific characteristics	14
Modular sequencer	11
Logic elements	17
Sub-bases and timers	18
Amplifiers and sensor modules	19
Electro-modules	20
Impulse counters and timers	21
Accessories	22
Spare parts	23
Bases / Cells associations	24 - 25
Dimensions	26 - 20



### Line mounted logic elements

These can either be mounted along the length of the line or located in an enclosure.

Two logic functions are available with this model : AND and OR.





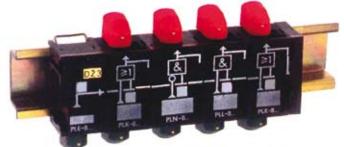
### Combinable logic elements

These elements can be combined with each other enabling the assembly of compact logic blocks. Three logic functions are provided: AND - OR and inhibition NOT.

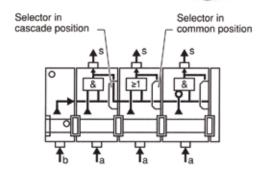
In addition to the combination assembly by integral key, each logic element includes a mode selector which enables, simply by pivoting the selector, a choice between cascade mode or common, input mode:

- cascade mode means that the element output corresponds to the input of the following element;
- common input mode sends one of the element's inputs to an input of the following element.

The logic block obtained in this way for each applications are mounted in an enclosure on standard Omega rail, are connected by instant connections and carry, on the front, their internal diagram to facilitate any intervention.







### Sub-base mounting logic elements

As an alternative, it is possible to use logic element suitable for mounting on 3-port sub-bases, the interconnections being made by the sub-bases.

The following can be used:

- 3-port sub-bases with common pressure, with common used as "input common";
- 3-port "cascade" sub-bases.





The specialized relays mounted on stacking sub-bases are complementary to the sequencers and logic elements.

According to the relay, it can be used a 3-port or a 4-port sub-base.



### 3-port sub-bases

These are designed for the mounting of:

- timers,
- relays for bleed sensors,
- pressure operated electrical contacts.





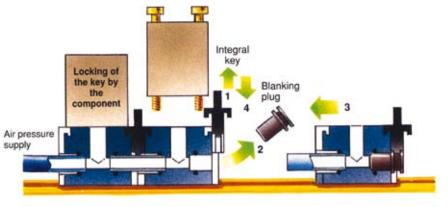


### 4-ports sub-bases

These are designed for the mounting of:

- memory relays,
- amplifier relays for fluidic proxility sensors.

The standard configuration enables the use of a single pressure supply to all the relays by the centre ports; this is why the stacking "common pressure" sub-bases, with either 3 or 4 ports, are all designed to be used singly or combined in a bank traversed by a pressure common.





Production machines fitted with pneumatic cylinders generally repeat a defined sequencial cycle.

The pneumatic sequencer commands and controls the correct operation of the required cycle.

Being modular, the sequencer can be easily configured to each cycle encountered. It constitutes the backbone of the pneumatic control.

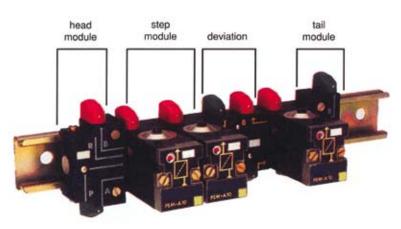
Logic elements and special relays are necessary to ensure the additional functions : safety conditions, operating modes, time delays, etc...

### Composition

The pneumatic sequencer comprises:

- the stage modules corresponding to the cycle to be run: a module is used for each stage of the GRAFCET function chart;
- the two modules, head and tail, interlock the association of the module onto Omega rail and enable the connection of the pressure common, of the reset to zero and the connection loops between the last and the first module.

A deviation module is fitted between the step modules to intercept the inter-module signals when the cycle includes parallel elements, restarts or the skipping of a step.



### Dialogue

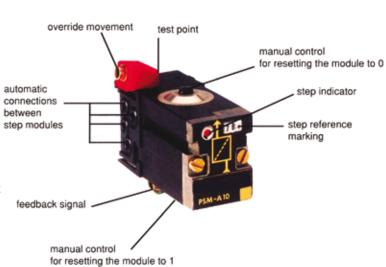
The pneumatic sequencer facilitates the machine adjustment dialogue and the optional dialogue.

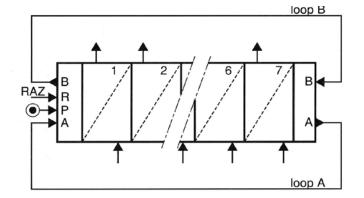
At the step module level, dialogue items include :

- a step indicator which signals the step activated;
- step reference marking;
- manual overrides for resetting the module to 0 or to 1;
- test point, enabling knowledge of the input and output state of each module.

At the closure module level, the reference markings enable:

- connection of loops A and B necessary for cycle repetition;
- switching on of the sequencer;
- -fitting of a reset (RESET) if the application requires this.





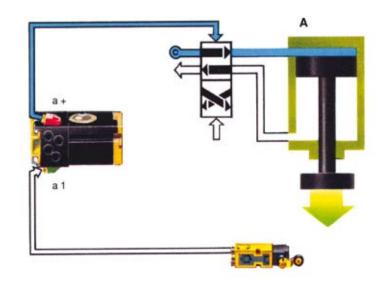


### Setting up

The sequencer reproduces the GRAFCET function diagram configuration which defines the operating cycle: a sequencer stage module corresponds to each stage in the cycle.

The activated stage module sends the control signal to the pressure valve controlling the action intended for the stage, then waits for the feedback signal at the end of this action before activating the next stage module in the sequencer.

The all pneumatic loop shown in the diagram revolves in this way around the stage module, the sequencer activating stage by stage each of the actions to be carried out in the cycle order.



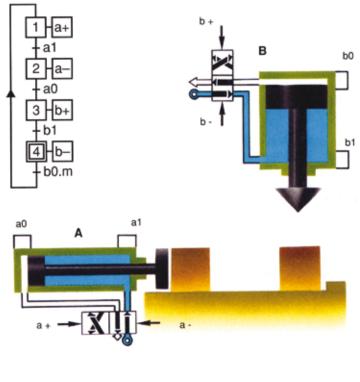
#### **Example**

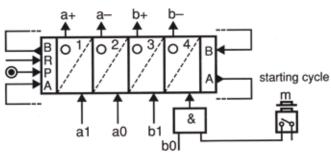
This very simple example shows a pneumatic press fitted with a part supply cylinder.

A bistable power valve and end of travel sensors are associated with each cylinder.

The GRAFCET diagram defines the required cycle. The initial stage is placed at the end to facilitate obtaining the cycle via the sequencer.

In the diagram, the sequencer reproduces the GRAFCET diagram, sending step by step control signals (a+, a-, b+, b-) according to the feedback signals (a1, a0, b1, b0).





### **Basic features**

	Logic Function	Logic Symbol	Pneumatic Component	Function Symbol	Electrical Equivalent
P A S S I V E	OR	S = a OR b (or both) S = a + b  at least one of th inputs "a" OR "b" is ON		a b	S = a+b
F U N C T I O N S	AND	S = a and b S = ab Output S is ON only if inputs "a" AND "b" are ON	S = ab	a b	$ \begin{array}{cccc}  & a & b \\  & & & \\  & & & \\  & & & \\  & & & \\  & & & &$
A C T	YES (Regenerate)	S = a (Regenerated) Output S is ON and regenerated if input "a" is ON	S = a		la O
IVE FUNCTIO	NOT (Inhibit)	Output S is ON if input "a" is OFF  (and if supply P i present)   "b" is an intermittent signal. "a" inhibits "b". Output S is ON if "b" is ON and "a" is OFF	S = ā S = ā		S = ā  b S = āb
N S	MEMORY	Input "a" generates Output S (SET). Output S remains ON until removed by input "b" (RESET			



#### ATEX - Ex products compliance

Some products (**PLL-**, **PLK-**, **PLN-**, **PLJ-**, **PLM-**, **PRD-**, **PRF-**, **PRT-**, **PSM-**, **PSV-A1**) are available certified ATEX Labels II 2 GD c 85 °C zones 1, 2, 21, 22 certification n° LCIE 04 ATEX 6164X.

All these products are marked with \* in this technical leaflet.

To obtain the ATEX version of the product, add -EX at the end of the order code Eg: PSM-A12-EX

For more information please refer to ATEX Components technical leaflet: PDE2584TCUK-ev





## **ATEX** = "**AT**mosphère **EX**plosible"

## Introduction to the European ATEX directive Explosive atmospheres

Directive 94/9/EC defines an explosive atmosphere as a mixture of :

- a) flammable substances gases, vapours, mists or dusts
- b) with air
- c) under specific atmospheric conditions
- d) in which, after ignition has occurred, combustion spreads to the entire flammable mixture

(NB: with regard to dust, it may be that not all dust is combusted after ignition has occurred)

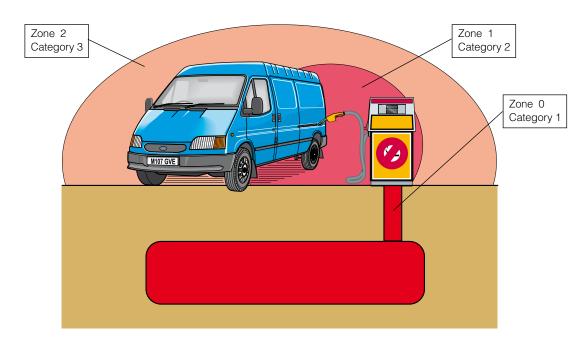
An atmosphere with the potential to become an explosive atmosphere during operating conditions and/or under the influence of the surroundings is defined as a **potentially explosive atmosphere**. Products covered by directive 94/9/EC are defined as intended for use in potentially explosive atmospheres.

#### Harmonised European ATEX standard

The European Union has adopted two harmonised directives in the field of health and safety. The directives are known as ATEX 100a and ATEX 137.

Directive ATEX 100a (94/9/EC) lays down minimum safety requirements for products intended for use in potentially explosive atmospheres in European Union member states. Directive ATEX 137 (99/92/EC) defines minimum requirements for health and safety at the workplace, for working conditions and for the handling of products and materials in potentially explosive atmospheres. This directive also divides the workplace into **zones** and defines criteria by which products are **categorised** within these zones.

The table below describes the **zones** in an installation where there is a potential for explosive atmospheres. The **owner** of the installation must analyse and assess the area in which the explosive gas/dust mixture may occur, and if necessary must divide it into **zones**. This process of zoning then allows the correct plant and equipment to be selected for use in the area.



Zo	nes	Presence of potentially explosive atmosphere	Type of risk
Gas G	Dust		
0	<b>D</b> 20	Present continuously or for long periods.	Permanent.
1	21	Likely to occur in normal operation occasionally.	Potential.
2	22	Not likely to occur in normal operation but, if it does occur, will persist for a short period only.	Minimal.

The ATEX directive has been in force throughout the European Union since 1 July 2003, replacing the existing divergent national and European legislation relating to explosive atmospheres.

Please note that for the first time, the directive covers mechanical, hydraulic and pneumatic equipment and not just electrical equipment as before.

With regard to the **Machinery directive** 98/37/EC, note that a number of external requirements in 94/9/EC refer to hazards arising from potentially explosive atmospheres, where the Machinery directive only contains general requirements relating to explosion safety (Annex I 1.5.7).

As a result, directive 94/9/EC (ATEX 100a) takes precedence over the Machinery directive with regard to explosion protection in potentially explosive atmospheres. The requirements in the Machinery directive are applicable to all other risks relating to machinery.

In most cases full certification is not required, a much more simple "Risk Assessment" as detailed in the Directive, for the products to be supplied will suffice. At the moment we are conducting "Risk Assessments" in accordance with the Directive, on a broad range of core products which will be published on the web site. A more limited range of products will have the full ATEX certification where this is deemed necessary.



## **ATEX** = "**AT**mosphère **EX**plosible"

#### Levels of protection for the various equipment categories

The various equipment categories must be capable of operating in accordance with the manufacturer's operating specifications at defined levels of protection.

Level of			Type of protection	Operating specifications
protec- tion	Group	Group		
Very high	M1		Two independent means of protection or safety, ensuring that the equipment remains functional even in the event of two faults occurring independently of each other.	The equipment remains energised and functional even with an explosive atmosphere present.
Very high		1	Two independent means of protection or safety, ensuring that the equipment remains functional even in the event of two faults occurring independently of each other.	The equipment remains energised and functional in zones 0, 1, 2 (G) and/or zones 20, 21, 22 (D).
High	M2		Protection suitable for normal operation and severe operating conditions.	The equipment is de-energised in the event of an explosive atmosphere.
High		2	Protection suitable for normal operation and frequent faults, or equipment in which faults normally have to be taken into account.	The equipment remains energised and functional in zones 1, 2 (G) and/or zones 21, 22 (D).
Normal		3	Protection suitable for normal operation.	The equipment remains energised and functional in zones 2 (G) and/or zones 22 (D).

#### **Definition of groups (EN 1127-1)**

**Group I** Equipment intended for use in underground parts of mines as well as those parts of surface installations of such mines likely to be endangered by flammable vapours and/or flammable dusts.

Group II Equipment intended for use in other places exposed to explosive atmospheres.

Group	l mines, combustible vapours		II s other potentially explosive atmospheres (gases, dust)					st)
Category	M1	M2	1 2		3			
Atmosphere*			G	D	G	D	G	D
Zone			0	20	1	21	2	22

<sup>\*</sup> G = gas and D = dust

#### Temperature classes

Classification of flammable gases and vapours on the basis of ignition temperature.

Temperature class	Maxi. allowed temperature on the surface of the material (°C)
T1	450
T2	300
Т3	200
T4	135
T5	100
T6	85

### Parker components out of scope of the ATEX Directive :

Essential elements with the reliable use of the products and protection systems, but not having an autonomous function nor an own ignition source.

#### **Declaration of conformity**

The product catalogues contain copies of the declaration of conformity demonstrating that the product meets the requirements of directive 94/9/EC.

The declaration is only valid in conjunction with the instructions contained in the installation manual relating to the safe use of the product throughout its service life.

The instructions relating to the conditions in the surrounding area are particularly important, as the certificate is invalidated if the instructions are found not to have been adhered to during operation of the product. If there is any doubt as to the validity of the certificate of conformity, contact Parker Hannifin customer service.

#### Operation, installation and maintenance

The product installation manual contains instructions relating to the safe storage, handling, operation and servicing of the product.

The manual is available in different languages, and can be downloaded from www.parker.com/euro\_pneumatic.

This document must be made accessible in a suitable place near where the product is installed. It is used as a reference for all personnel authorised to work with the product throughout its service life.

We, the manufacturer, reserve the right to modify, extend or improve the installation manual in the interests of the users.

For more information about ATEX see EUs homepage: http://europa.eu.int/comm/enterprise/atex/



### Pneumatic automation; Control module

Time delay Relay

Relay function













Series	PSM, PLM	PLL, PLK	PLL, PLK	PLN-D, PLJ	PRT	PLM
Function	Modular sequencer	Stand alone logic cell	Stackable logic cell	Subbase mtd logic cell	Time relay Pneum. Relay	Memory Relay
Operating Pressure	3 to 8 bar	3 to 8 bar	3 to 8 bar	3 to 8 bar	3 to 8 bar	3 to 8 bar
Storage temperature	-15 °C to +70 °C	-15 °C to +70 °C	-15 °C to +70 °C	-15 °C to +70 °C	-15 °C to +70 °C	-15 °C to +70 °C
Working temperature	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40°C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Flow, NI/min at 6 bar	180	180	180	90/180	180	180
Flow, Kv	1,8	1,8	1,8	1/1,8	1,8	1,8
Response time	Commuting tim	ne of the primary	acting cell: 2 to 3	3 ms		
Mechanical life at 6 bar, 20 °C 1 Hz	10 million cycles	100 million cycles	100 million cycles	10 million cycles	10 million cycles	10 million cycles
Shocks and Vibrations	According to IE	: EC 68-2-6 and IE	EC 68-2-27		•	
Connection	Push-in connection Ø4 mm					
Mounting	All positions	All positions	All positions	All positions	All positions	All positions
Refer to page	15	16	17	17	18	19

#### Material

Valve member - seat : Self lubricating acetal - ceramic Body: Polyamide reinforced fibreglass

Casing - End plates : Anodised aluminium

Valve plate : Zamak

Seals: Nitrile Stainless steel Springs: Screws: Stainless steel Poppets: Polyuréthane

### **General Characteristics**

Fluid: Air or inert gas

filtered 40 µ class 5 according to ISO 8573-1 dry class according to service temperature

non-lubricated, or lubricated

-40 °C to + 70 °C Storage temperature :

Low temperature climatic : According to EN 60068-2-1, test Ad High temperature climatic: According to EN 60068-2-2, test Bd According to IEC 68-2-6 and IEC 68-2-27 Shock and Vibrations:

Salt spray test: According to ISO 9227, 168 h

Solenoid orifice: 1.2/1.3mm Power (DC): 6 to 6.8W Voltage tolerance: +/- 30% Duty cycle: 100% Din A

Electrical connection:



**Relay functions** 

Pressure Switch Solenoid Actuator **Counters and Timers** 















PRD	PRF	PRE, PS1	PRS	PCT, PCP	2147	PCM		
Amplifier relay	Sensor relay	Pressure switch	Solenoid actuator	Counter	Binary Counter	Timers		
3 to 8 bar	3 to 8 bar	3 to 8 bar	3 to 8 bar	2 to 8 bar	0 to 10 bar	2 to 6 bar		
-15 °C to +70 °C	-15 °C to +70 °C	-15 °C to +70 °C	-15 °C to +70 °C	0 °C to +60 °C	0 °C to +70 °C	0 °C to +60 °C		
-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +40 °C	-0 °C to +50 °C		-0 °C to +60 °C		
90	180	-	60	-	460	100		
1	1,8		0,65	-	-			
Commuting time acting cell: 2 to 3	, ,	2 to 3 ms	8 to 12 ms	Reset time 150 ms		set time 00 ms		
10 million cycles	10 million cycles	10 million cycles	10 million cycles	10 million cycles	50 million cycles	5 million cycles		
	According to IEC 68-2-6 and IEC 68-2-27							
	Push-in connection Ø4 mm							
All positions	All positions	All positions	All positions	All positions	All positions	All positions		

| All positions |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 19            | 19            | 20            | 20            | 21            | 21            | 21            |



### **Specific characteristics**

#### **PRD**

Signal pressure (a): 0,5 to 2 mbar (maximum permissible overpressure = 200 mbar)

Auxiliary supply pressure (p): 100 to 200 mbar

Consumption : at 100 mbar with a = 0:3l/min ANR Operating frequency : 10 Hz (with manual control)

#### **PRF**

 $\begin{array}{ll} \text{Operating pressure:} & 3 \text{ to 8 bar} \\ \text{Nozzle } \varnothing: & 0,3 \text{ mm} \\ \text{Nozzle consumption:} & 2 \text{ Nl/min per bar} \end{array}$ 

#### **PRS**

Consumption: Direct current: sealed = 5 W Alternating current: sealed = 6 VA; inrush = 20 VA

Voltage range: 0,9 to 1,05 Un

Standard voltages: 24 VDC; 48 VDC; 24 VAC; 115 VAC; 230 VAC

Rating: 100 %

Connection: Plug -in connector, Ø 9 mm cable entry, terminal capacity 1,5 mm<sup>2</sup>

Nominal insulation voltage: 660 V AC or V DC (with manual control)

Protection degree: IP 65

#### **PRE**

Trip pressure: 2,2 to 3 bar
Depilot pressure: 2 to 2,6 bar
Max. operating frequency: 10 Hz

Nominal insulation voltage: 660 V AC or V DC

Nominal thermal rating : 10 A Protection degree : IP 65

Connection: Plug -in connector, Ø 9 mm cable entry, terminal capacity 1,5 mm<sup>2</sup>

Function: NO contact

#### PS1-P

Fixed trip pressure : ≤1,3 bar
Adjustable trip pressure : 2 to 5 bar
Nominal thermal rating : 10 A
Max. operating frequency : 10 Hz

Nominal insulation voltage: 660 V AC or V DC

Protection degree: IP 40

Function: Open/Closed contact



## Modular sequencer

### Step modules

Туре	Symbol	Logic function	Description	Connection	<b>Weight</b> kg	Order code
	ţ.	Visual indication of pneumatic output and manual override	With PSB-A12 sub-base	Ø4 mm Swivel push-in	0,175	PSM-A12 *
	1	Without manual override	With PSB-A12 sub-base	Ø4 mm Swivel push-in	0,170	PSM-B12 *

### Set of head and tail modules

Туре	Symbol	Logic function	Connection	<b>Weight</b> kg	Order code
	←B- -R≯ -P≯ -A≯ -A≯	Ø6 mm Swivel push-in connection	Ø4 mm Swivel push-in	0,080	PSE-A12

### **Deviation modules**

Туре	Symbol	Logic function	Connection	<b>Weight</b> kg	Order code
	₄ B € ¬A Γ→	Used for parallel, optional, repeat sequenses and skip step	Ø4 mm Swivel push-in	0,050	PSD-A12
	d B t d A R A P A P A P A P A P A P A P A P A P	for the remote reset of the last step module		0,050	PSD-B12

<sup>\*</sup> ATEX version available Order code example : **PSM-A12-EX** 



### Additional step module interlock

Туре	Symbol	Logic function	Connection <sup>(1)</sup> connection	<b>Weight</b> kg	Order code
	[/] Ħ	May be mounted between the sub-base and the step module to interrupt the sequence if a sensor is found to be faulty	Ø4 mm Swivel push-in	0,045	PSV-A12 *

(1) For other type of connections contact Technical Sales Department

### Step module without sub-base

To be used with PSB-A12 sub-bases

Туре	Symbol	Logic function	Description	<b>Weight</b> kg	Order code
	†	Visual indication of pneumatic output	With manual override	0,135	PSM-A10 *
	4		Without manual override	0,130	PSM-B10

### Step module sub-base

Туре	Description	Connection (1)	<b>Weight</b> kg	Order code
	Sub-base	Ø4 mm Swivel push-in	0,040	PSB-A12

(1) For other type of connections contact technical sales Technical Sales Department

#### Main data for Line mounted elements

Туре	Symbol	Logic function	Description	Connection	<b>Weight</b> kg	Order code
	s & a L b	AND	Single module	Ø4 mm Straight push-in	0,07	PLL-A11 *
1	\$ s ≥ 1 a b	OR	Single module	Ø4 mm Straight push-in	0,07	PLK-A11 *
		Screw and clip assembly	Enables line mounted elements to be attach DIN rail (Sold per pack of 10)	ned to	0,02	PZM-L199

\* ATEX version available Order code example : **PSV-A12-EX** 



### Main data for Combinable elements

Туре	Symbol	Logic function	Description	Connection (1)	<b>Weight</b> kg	Order code
	& a \int_b	AND	With built-in key for combination and operating mode selection	Ø4mm Swivel push-in	0,08	PLL-B12 *
	↑ <sup>S</sup> ≥1 a	OR	With built-in key for combination and operating mode selection	Ø4mm Swivel push-in	0,08	PLK-B12 *
	**************************************	NOT	With built-in key for combination and operating mode selection	Ø4mm Swivel push-in	0,08	PLN-B12 *
	[r	INPUT	With built-in key for combination, clip for mounting on DIN rail and blanking plate for closing a bank of combined elements	Ø4mm swivel push-in	0,08	PLE-B12

<sup>(1)</sup> For other type of connections contact Technical Sales Department

#### Main data for Sub-base mounted element

Туре	Symbol function	Logic	Description	<b>Weight</b> kg	Order code
(For use with 3 por	t sub-base, ty	pe PZU•• please see	page 18)		
	**	AND	With visual indication of pneumatic output signal	0,03	PLL-C10 *
	↑S ≥1	OR	With visual indication of pneumatic output signal	0,03	PLK-C10 *
	**************************************	NOT inhibit standard	With visual indication of pneumatic input/output signal	0,03	PLN-C10 *
	\$ & \\ & \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NOT inhibit on	With visual indication of pneumatic input/output signal threshold	0,03	PLN-D10 *
	A S	YES regenerate	With visual indication of pneumatic input/output signal	0,03	PLJ-C10*

<sup>\*</sup> ATEX version available Order code example : **PLL-B12-EX** 



## Sub-bases and timers

#### Sub base mounted elements

Туре	Symbol	Logic function	Description	Connection (1)	<b>Weight</b> kg	Order code
3-port sub-bas	ses (2)		With common input	Ø4 mm Swivel push-in	0,04	PZU-A12
			Cascade	Ø4 mm Swivel push-in	0,05	PZU-C12
4-port sub-base	ses (2)		For combination with memory relay (see next page) and amplifier relay (see next page)	Ø4 mm Swivel push-in	0,05	PZU-B12
Input module				Ø4 mm Swivel push-in	0,05	PZU-E12

<sup>(1)</sup> For other type of connections contact Technical Sales Department (Ex: M5 connection = PZU-E15)

### Main data for time delay relays

Туре	Function	Timing range	Connection (1)	<b>Weight</b> kg	Order code
Complete with					
sub-base PZU-A12	Output after timed period	0,1 to 30 s	Ø4 mm Swivel push-in	0,17	PRT-A12 *
Without sub-base					
For sub-base <u>_t</u> s	Output after	0,1 to 3 s		0,13	PRT-E10 *
PZU-A12 or PZU-C12	timed period	0,1 to 30 s		0,13	PRT-A10 *
• 🕂		10 to 180 s		0,13	PRT-B10 *
<b>p</b> s	Output during	0,1 to 3 s		0,13	PRT-F10 *
ti 0	timed period (3)	0,1 to 30 s		0,13	PRT-C10 *
P <sub>a</sub>	. ,	10 to 180 s		0,13	PRT-D10 *
Tamper proof cap				0,01	LA9-D901

<sup>\*</sup> ATEX version available Order code example : **PZU-A12-EX** 



<sup>(2)</sup>Can be used singly or in combination. Mounting methods: On DIN rail with built in clip, on surface mounting using screws M4x25

<sup>(1)</sup> For other type of connections contact Technical Sales Department

<sup>(3)</sup> Can be used to provide an impulse generator

## Amplifiers and sensor modules

### **Main data for Memory relays**

Туре	Symbol	Description	Connection (1)	<b>Weight</b> kg	Order code
Complete with sub-base PZU-B	12	With priority reset signal and visula indication With manual override	Ø4 mm Swivel push-in	0,19	PLM-A12 *
Without sub-base For sub-base PZL	-	With priority reset signal and visulal indication With manual override		0,14	PLM-A10 *
	×TTY	Without manual override		0,13	PLM-B10

### Main data for Amplifier relays

Туре	Symbol	Description	Connection (1)	<b>Weight</b> kg	Order code
Complete with sub-base PZU-	B12	This relay is used to amplify the low pressure signal provided by a fluidic proximity sensor to a useable level With manual override	Ø4 mm Swivel push-in	0,18	PRD-A12 *
Without sub-ba For sub-base PZ		This relay is used to amplify the low pressure signal provided by a fluidic proximity sensor to a useable level With manual override		0,13	PRD-A10 *

### Main data for Sensor relays

Туре	Symbol	Description	Connection (1)	<b>Weight</b> kg	Order code
Complete with sub-base PZU-A12	2	This relay is used to provide a supply to a bleed sensor and to generate a pneumatic signal equal to its supply pressure	Ø4 mm Swivel push-in	0,07	PRF-A12 *
Without sub-base For sub-base PZU-A or PZU-C12	12	This relay is used to provide a supply to a bleed sensor and to generate a pneumatic signal equal to its supply pressure		0,03	PRF-A10 *

<sup>\*</sup> ATEX version available Order code example : **PLM-A12-EX** 

 $<sup>\</sup>hbox{(1) For other type of connections contact your Technical Sales Department}\\$ 



### Main data for Solenoid actuators

Туре	Symbol	Voltage	Load		Connection	<b>Weight</b> kg	Order code
Complete units	, solenoid	and cable plug					
	@ <b>*</b>	24 V ~ 50/60 Hz	8,5 VA	Manual override	22 mm Plug-in	0,17	PRS-A121B
	Ħ,	24 V	6 W	Manual override	22 mm Plug-in	0,17	PRS-A122B
		115 V ~ 50 Hz 120 V ~ 60 Hz	8,5 VA	Manual override	22 mm Plug-in	0,17	PRS-A121F
-		230 V ~ 50 Hz 240 V ~ 60 Hz	8,5 VA	Manual override	22 mm Plug-in	0,17	PRS-A121M
Solenoid moun	iting base						
		For mounting the s coil and plunger of 3-port modular sub PZU-A••, see pag	n o-bases type	Manual override		0,09	PRS-D10
Solenoid coil							
with plunger and 22 mm plug-in connect		24 V* 48 V*	6 W			0,135 0,135	PVA-F102B PVA-F102E
nag in comicor	01 (1)	24 VAC 50/60 Hz	8,5 VA			0,135	PVA-F101B
N. A. C. L. M. A.		48 VAC 50/60 Hz 115 VAC 50 Hz/ 120 VAC 60 Hz	8,5 VA 8,5 VA			0,135 0,135	PVA-F101E PVA-F101F
		230 VAC 50 Hz 230 VAC 50 Hz 240 VAC 60 Hz	8,5 VA			0,135	PVA-F101M
		255 VAC 50 Hz	8,5 VA			0,135	PVA-F101U

- \* Versions available for operation in explosive atmospheres.
- Conforming to certificate LCIE 866115X
- Electrical equipment conforming to harmonised European standards

EN 50014 dated March 1977 (NFC 23514 dated May 1982) EN 50019 dated March 1977 (NFC 23519 dated May 1982)

- Referencing code EExe II T4 (consult Technical Sales Department)
- (4) Can be fitted with LED indicator and suppression, PVA•ZF••

### Main data for Pressure switches

Туре	Symbol	Electrical characteristics	Pneumatic characteristics		Connection Electric/Pneumatic	<b>Weight</b> kg	Order code
Complete ur	nit with sub-b	ase, solenoid and ca	able plug				
	A B	N/O contact	override	Manual Plug-in	22 mm	0,13	PRE-A12
				Ü	Ø4 mm Swivel push-in		
Without sub	-base						
	A B	N/O contact		Manual override	22 mm Plug-in Ø4 mm Swivel push-in	0,04	PRE-A10
Line mounte	ed						
	A B	1 CO contact 5 A/250 V	Fixed operating threshold	Manual override	Ø4 mm Push-in	0,05	PS1-P1081
	a	1 CO contact 5 A/250 V	Adjustable operating threshold	Manual override	Ø4 mm Push-in	0,05	PS1-P1091



## Impulse counters and timers

### Main data for Impulse counters

Туре	Symbol	Type Counting range	Mounting		<b>Weight</b> kg	Order code
Totalising counter	ers	Pneumatic or manual reset	0 - 999 999	Suface mounting Flush mounting	0,08 0,06	PCT-A11 PCT-B11
Pre-selection cou	unters					
	Z	Additional with pneumatic or manual reset	0 - 99 999	Flush mounting	0,12	PCP-A11
0	<b>⊗</b> P	Auto reset	0 - 99 999	Flush mounting		PCP-A111
00000	Z	Subtraction with pneumatic or manual reset	0 - 99 999	Flush mounting	0,11	PCP-S11

### **Binary counters**

Description	<b>Weight</b> kg	Order code
Pneumatic actuated	0,650	2147900
Electrical actuated	0,775	2147950

#### Main data for Timers

- ӯре	Symbol	Туре	Time base	Time range	<b>Weight</b> kg	Order code
Digital display	X lim	With pneumatic or manual reset	1 second	1 second to 27 hours	0,20	PCM-A11
0	×		1 minute	1 minute to 69 days	0,20	PCM-B11
1	<u>₽</u> P		2 minutes	3 to 100 minutes	0,20	PCM-E11
Calibrated dial			1 second	2 to 30 seconds	0,05	PCM-F11
I I I I I I I I I I I I I I I I I I I		N	1 second	20 to 300 seconds	0,05	PCM-G11



### \_\_\_\_\_

### **Mounting bezels**

kg	
-,-	PXC-ZM6075
-,-	PXC-ZM7272
-	-out 0,015

### **Bezels for DIN rail mounting**

Туре	Description	<b>Weight</b> kg	Order code
	For (non-reversible) clip-on mounting of PCM-F11 and PCM-G11 on push-in connection sub-base	0,020	PXC-ZA35
	35 mm DIN rail latching device for PXC-ZA35 sub-bases	0,010	PXC-ZE35

### Lockable cover

### Degree of protection IP 55

Туре	Description	<b>Weight</b> kg	Order code
	Transparent cover key lockable for 60x75 bezel for PCP-A11, PCP-S11, PCP-MA11, PCP-MB11	0,025	PXC-B1
	For PCT-B11	0,018	PXC-A1



### Seals for step modules and additional interlock modules

Туре	Base component	<b>Weight</b> kg	Order code
1 set of 10 flat seals	PSM-A12	0,038	PPR-L01
	PSM-B12		
	PSV-A12		
	PSB-A12		

### For logic elements and relays for mounting on modular sub-bases

Туре	Base component	<b>Weight</b> kg	Order code
1 lot of 100 O-ring seals comprising:	PLJ-C10	0,015	PPR-L04
<ul><li>10 seals for ports with inputs filters</li><li>90 seals for ports without input filter</li></ul>	PLK-C10		
- 30 Seals for ports without input filter	PLL-C10		
	PLN-C10		
	PLN-D10		
	PRT- • •		
	PRF-A10		

### For amplifier relays

Туре	Base component	<b>Weight</b> kg	Order code
1 lot of 10 Mylar diaphragms	PRD-A10 PRD-A12	0,004	PPR-L08



### Base usage - Shows which components can be mounted with which base types

Element	Order code	Туре	2-Port	3-Port	4-Port	6-Port
		Stacking		PZU-A12	PZU-B12	PSA-B12
		Stacking		PZU-C12		
		Inline	BNC3P20	BNC3P10		
		Inline	BPB3P20	BPB3P10		
Step Module			1		1	T
Step Module with Overrides	PSM-A10					Х
Step Module without Override	PSM-B10					Х
Logic			T	T	1	1
AND	PLL-C10			X		
OR	PLK-C10			X		
YES	PLJ-C10			X		
NO	PLN-C10			X		
Threshold NOT	PLN-D10			X		
Relays				1		
Sensor	PRF-A10			X		
Solenoid	PRS-A10		X	X		
Electric Pressure Switch	PRE-A10			X	X	
E/P Pressure Switch	LNOTPS10			X		
Electric Pressure switch	LPS10		X	X		
Vacuum / Electric	LPSV10		X	X		
Timers						
Timer (NNP) Relay	PRT-A10		X*	Х		
Timer (NNP) Relay	PRT-B10		X*	X		
Timer (NNP) Relay	PRT-E10		X*	Х		
Timer (NNP) Relay	PRT-C10		X*	Х		
Timer (NNP) Relay	PRT-D10		X*	Х		
Timer (NNP) Relay	PRT-F10		X*	Х		
Other Relays						
Memory Relay	PLM-A10			X	X	
Amplifier Relay	PRD-A10			Х	Х	

<sup>\*</sup> Functionality must be checked.



### Fitting color code

Port	La	Color	
Supply	Р	2	Black / None
Signal	а	1	Green
Output	S	3	Red

### Sequencer input power modules

	Entry Module	Head / Tail
	PZU-E12	PSE-A12*
Used with	PZU-A12	PSB-A12 **
Base	PZU-C12	
	PZU-B12	

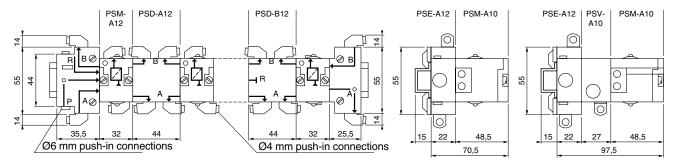
\* PSE-A12**-EX** (ATEX version)

\* PSE-A127 (U.S. version)

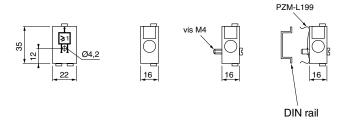
\*\* PSB-A12**-EX** (ATEX version)

### **Dimensions, Logic processing**

#### Modular sequencer

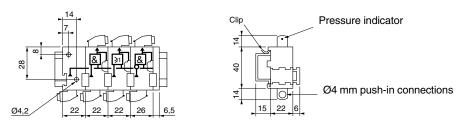


## Line mounted logic elements PLL-A11 and PLK-A11



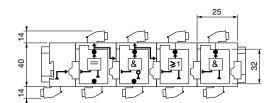
#### **Combinable logic elements**

PLE-B12 — PLL-B12 — PLK-B12 and PLN-B12

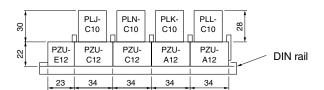


#### Logic elements mounted on 3-port modular sub-bases

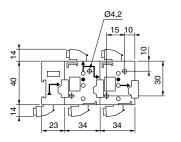
PZU-E12



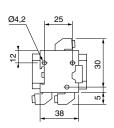
## PLJ-C10 — PLN-C10 — PLK-C10 and PLL-C10 mounted on PZU-C12 and PZU-A12

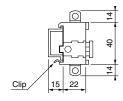


3 and 4-port modular sub-bases PZU-E12 — PZU-C12 — PZU-A12

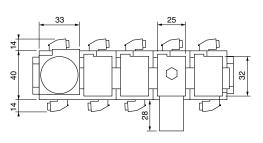


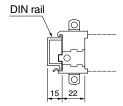
PZU-B12

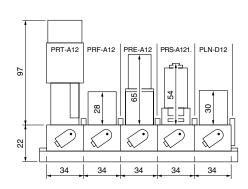




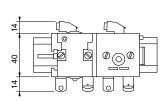
#### Relays mounted on 3-port modular sub-bases PRT-A12 — PRF-A12 — PRE-A12 — PRS-A121 and PLN-D12

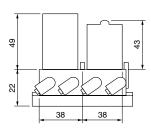




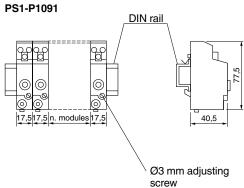


## Relays mounted on 4-port modular sub-bases PLM-A12 and PRD-A12

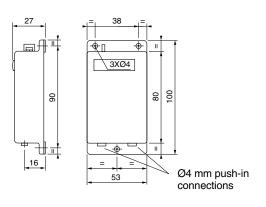


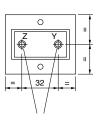


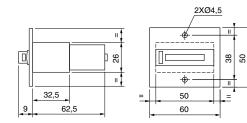
### Pressure switch



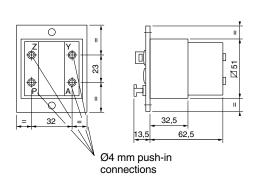
## Totalising counters PCT-A11 PCT-B11

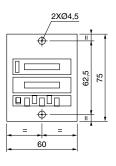




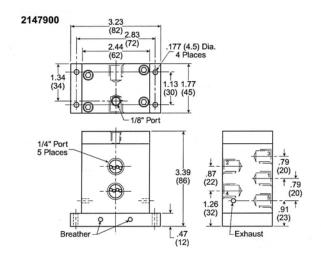


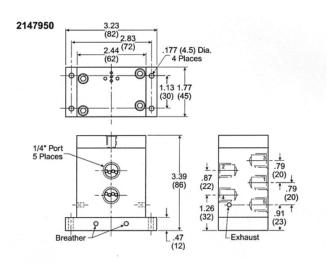
## Preselection counters PCP-A11 and PCP-S11



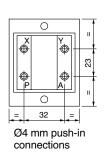


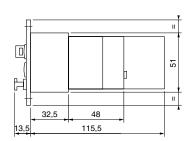
#### Binary counters PCM-A11 and PCM-B11

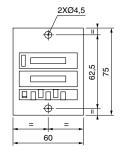


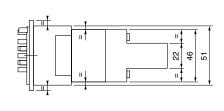


## Digital display timers PCM-A11 and PCM-B11

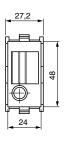


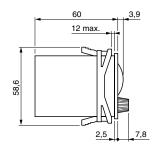


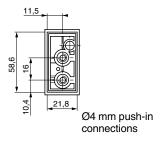




## Timers with calibrated dial PCM-F11 and PCM-G11







### PDE2619TCUK

### **Logic Processing**



### PDE2619TCUK

### **Logic Processing**



### Parker Worldwide

**AE - UAE,** Dubai Tel: +971 4 8127100 parker.me@parker.com

**AR – Argentina,** Buenos Aires Tel: +54 3327 44 4129

**AT – Austria,** Wiener Neustadt Tel: +43 (0)2622 23501-0 parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt

Tel: +43 (0)2622 23501 900 parker.easteurope@parker.com

**AU – Australia,** Castle Hill Tel: +61 (0)2-9634 7777

**AZ - Azerbaijan,** Baku Tel: +994 50 2233 458 parker.azerbaijan@parker.com

**BE/LU – Belgium,** Nivelles Tel: +32 (0)67 280 900 parker.belgium@parker.com

**BR - Brazil,** Cachoeirinha RS Tel: +55 51 3470 9144

**BY - Belarus,** Minsk Tel: +375 17 209 9399 parker.belarus@parker.com

**CA – Canada,** Milton, Ontario Tel: +1 905 693 3000

**CH - Switzerland,** Etoy Tel: +41 (0) 21 821 02 30 parker.switzerland@parker.com

**CL - Chile,** Santiago Tel: +56 2 623 1216

**CN – China,** Shanghai Tel: +86 21 5031 2525

**CZ - Czech Republic,** Klecany Tel: +420 284 083 111 parker.czechrepublic@parker.com

**DE – Germany,** Kaarst Tel: +49 (0)2131 4016 0 parker.germany@parker.com

**DK - Denmark,** Ballerup Tel: +45 43 56 04 00 parker.denmark@parker.com

**ES - Spain,** Madrid Tel: +34 902 33 00 01 parker.spain@parker.com

FI - Finland, Vantaa Tel: +358 (0)20 753 2500 parker.finland@parker.com FR - France, Contamine s/Arve Tel: +33 (0)4 50 25 80 25 parker.france@parker.com

**GR – Greece**, Athens Tel: +30 210 933 6450 parker.greece@parker.com

**HK – Hong Kong** Tel: +852 2428 8008

**HU - Hungary,** Budapest Tel: +36 1 220 4155 parker.hungary@parker.com

IE - Ireland, Dublin Tel: +353 (0)1 466 6370 parker.ireland@parker.com

**IN - India,** Mumbai Tel: +91 22 6513 7081-85

IT - Italy, Corsico (MI) Tel: +39 02 45 19 21 parker.italy@parker.com

**JP – Japan,** Tokyo Tel: +(81) 3 6408 3901

**KR – South Korea,** Seoul Tel: +82 2 559 0400

**KZ - Kazakhstan,** Almaty Tel: +7 7272 505 800 parker.easteurope@parker.com

**LV – Latvia,** Riga Tel: +371 6 745 2601 parker.latvia@parker.com

**MX - Mexico,** Apodaca Tel: +52 81 8156 6000

**MY - Malaysia,** Shah Alam Tel: +60 3 7849 0800

NL - The Netherlands, Oldenzaal Tel: +31 (0)541 585 000 parker.nl@parker.com

**NO - Norway,** Ski Tel: +47 64 91 10 00 parker.norway@parker.com

**NZ - New Zealand,** Mt Wellington Tel: +64 9 574 1744

**PL - Poland,** Warsaw Tel: +48 (0)22 573 24 00 parker.poland@parker.com

**PT - Portugal,** Leca da Palmeira Tel: +351 22 999 7360 parker.portugal@parker.com **RO - Romania,** Bucharest Tel: +40 21 252 1382 parker.romania@parker.com

**RU - Russia,** Moscow Tel: +7 495 645-2156 parker.russia@parker.com

**SE – Sweden,** Spånga Tel: +46 (0)8 59 79 50 00 parker.sweden@parker.com

**SG – Singapore** Tel: +65 6887 6300

**SK – Slovakia,** Banská Bystrica Tel: +421 484 162 252 parker.slovakia@parker.com

**SL – Slovenia,** Novo Mesto Tel: +386 7 337 6650 parker.slovenia@parker.com

**TH - Thailand,** Bangkok Tel: +662 717 8140

**TR – Turkey,** Istanbul Tel: +90 216 4997081 parker.turkey@parker.com

**TW - Taiwan,** Taipei Tel: +886 2 2298 8987

**UA - Ukraine,** Kiev Tel +380 44 494 2731 parker.ukraine@parker.com

**UK - United Kingdom,** Warwick Tel: +44 (0)1926 317 878 parker.uk@parker.com

**US - USA,** Cleveland Tel: +1 216 896 3000

**VE – Venezuela,** Caracas Tel: +58 212 238 5422

**ZA – South Africa,** Kempton Park Tel: +27 (0)11 961 0700 parker.southafrica@parker.com

European Product Information Centre Free phone: 00 800 27 27 5374 (from AT, BE, CH, CZ, DE, DK, ES, FI, FR, IE, IT, NL, NO, PL, PT, RU, SE, UK, ZA)

© 2009 Parker Hannifin Corporation. All rights reserved.

Parker Hannifin Ltd

Pneumatic Division Europe The Collins Centre, Lichfield South, Wall Island, Birmingham Road, Lichfield. WS14 0QP United Kingdom Tel.: +44 (0) 1543 483800

Tel.: +44 (0) 1543 483800 Fax: +44 (0) 1543 483801 www.parker.com/euro\_pneumatic





Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Title:	PNEUMATIC L	PNEUMATIC LOGIC RATIONALISATION -						
Catalogue:	-							
Date of Issue:	8 September 20	8 September 2006						
Bulletin No:	09-06							

### Obsolescence Notice for Climax/Maxam Pneumatic Logic Products

Parker Pneumatics Europe currently manufactures the Parker Global (formerly Telepneumatic) and Climax/Maxam pneumatic logic ranges. Both product series have been supported in parallel for the previous five years albeit with reducing volumes on the Climax/Maxam product line. The Telepneumatic range will continue to form the basis of the Parker Global range since it offers many enhanced technical features and was developed as a second generation to the Climax/Maxam range.

As a result the majority of the Climax/Maxam logic range will be made obsolete during 2007, exceptions to this will be products which offer a unique addition to the Parker Global range.

The attached tables list the Climax/Maxam products with their Parker equivalent. Many of the popular logic elements from both ranges are interchangeable and will fit on the same pneumatic base, this is denoted within the data tables for ease of understanding. Catalogue information on these products can be viewed by clicking on the hyperlink:

#### http://www.parker.com/EAD/Digital asset display.asp?digital asset id=6812

Parker Pneumatic will continue to supply Climax/Maxam logic products while component stocks last, however, the anticipated production end will be 31st March 2007. Please be pro-active in the promotion of the preferred global products to ensure a smooth transition. Status reports throughout the oncoming months will be provided as component stocks are depleted.

We remain at your disposal for any further information.

Sincerely,

Claude Barrabès

Pneumatic Division Europe - Control Devices

Logic, Push Button, Limit switches & ATEX valves Product Manager

Tél: 33 (0) 2 32 23 34 25 Fax: 33 (0) 2 32 23 34 88

Email :claude.barrabes@parker.com

Mob: 33 (0)6 75 09 79 79

Action Required								
Discard old Bulletin	Request new Catalogue		Contact Factory	Check Stocks				
Issued by the Cor	ntrol Devices Business Ur Phon	it, Parker Hannifin Pne e: +33 (0)2 32 23 34 00						

	CLIMAX/MAXAM		Parker (Telepneumatic) Recommended Alternative			
Description	Part Number	Future Status	Expected Date of Obsolescence	Part number	Mounting Interchangeability	Specification Details
OR	LOR10	To be obsoleted	31/03/2007	PLK-C10	Yes	
AND	LAND10	To be obsoleted	31/03/2007	PLL-C10	Yes	
NOT	LNOT10	To be obsoleted	31/03/2007	PLN-C10 or-D10	Yes	
YES	LYES10	To be obsoleted	31/03/2007	PLJ-C10	Yes	
Normally open timer 0,14 to 14s	LTN10/0	To be obsoleted	31/03/2007	PRT-F10	Yes	0,1 to 3s
Normally open timer 0,25 to 2s	LTN10/1	To be obsoleted	31/03/2007	PRT-F10	Yes	0,1 to 3s
Normally open timer 0,5 to 6s	LTN10/2	To be obsoleted	31/03/2007	PRT-C10 or -D10	Yes	0,1 to 30s or 10 to 180s
Normally open timer 2,5 to 25s	LTN10/3	To be obsoleted	31/03/2007	PRT-C10 or -D10	Yes	0,1 to 30s or 10 to 180s
Normally closed timer 0,1 to 1,8s	LTY10/0	To be obsoleted	31/03/2007	PRT-E10	Yes	0,1 to 3s
Normally closed timer 0,4 to 3s	LTY10/1	To be obsoleted	31/03/2007	PRT-E10	Yes	0,1 to 3s
Normally closed timer 1 to 10s	LTY10/2	To be obsoleted	31/03/2007	PRT-A10 or -B10	Yes	0,1 to 30s or to180s
Normally closed timer 5 to 40s	LTY10/3	To be obsoleted	31/03/2007	PRT-B10	Yes	10 to 180s
Panel mounting kit	LT10/PAN	To be obsoleted	31/03/2007	No equivalent		
counting dial	LT10/A	To be obsoleted	31/03/2007	No equivalent		
Temper proof cover	LT10/C	To be obsoleted	31/03/2007	No equivalent		
3/2 NC solenoid valve12V AC	LSV10B	To be obsoleted	31/03/2007	No equivalent		
3/2 NC solenoid valve 24VAC	LSV10C	To be obsoleted	31/03/2007	PVA-F101B + PRS-D10	Yes	
3/2 NC solenoid valve 48VAC	LSV10D	To be obsoleted	31/03/2007	PVA-F101E + PRS-D10	Yes	
3/2 NC solenoid valve 110VAC	LSV10E	To be obsoleted	31/03/2007	PRS-A121F + PRS-D10	Yes	
3/2 NC solenoid valve 230VAC	LSV10F	To be obsoleted	31/03/2007	No equivalent		
3/2 NC solenoid valve 230VAC	LSV10X	To be obsoleted	31/03/2007	PVA-F101M + PRS-D10	Yes	
3/2 NC solenoid valve 12VDC	LSV10L	To be obsoleted	31/03/2007	No equivalent		
3/2 NC solenoid valve 24VDC	LSV10M	To be obsoleted	31/03/2007	PVA-F102B+PRS- D10	Yes	
3/2 NC solenoid valve 48VDC	LSV10N	To be obsoleted	31/03/2007	PVA-F102E + PRS-D10	Yes	
3/2 NC solenoid valve 110VDC	LSV10P	To be obsoleted	31/03/2007	No equivalent		
3/2 NC solenoid valve 220VAC	LSV15A1-21	To be obsoleted	31/03/2007	PVA-F101M + PRS-D10	Yes	
3/2 NC solenoid valve 220VAC	LSV15A3-21	To be obsoleted	31/03/2007	PVA-F101M + PRS-D10	Yes	
3/2 NC solenoid valve 110/120VAC	LSV15J3-21	To be obsoleted	31/03/2007	PVA-F101F + PRS-D10	Yes	
3/2 NC solenoid valve 12VDC	LSV15L3-21	To be obsoleted	31/03/2007	No equivalent		
3/2 NC solenoid valve 24VDC	LSV15M3-21	To be obsoleted	31/03/2007	PVA-F102B + PRS-D10	Yes	
Solenoid without coil	LSV10	To be obsoleted	31/03/2007	No equivalent		
Polylog memory (without subbase )	LPMEM10	To be obsoleted	31/03/2007	PLM-A10	Not interchangeable	
INPUT/OUTPUT BASE	BAESP10	To be obsoleted	31/03/2007	PSE-A12,B12	Not interchangeable	
INPUT PLATE	BAEP10	To be obsoleted	31/03/2007	No equivalent		
OUTPUT PLATE	BASP10	To be obsoleted	31/03/2007	No equivalent		

	C	LIMAX/MAXAM		Parker (Telep	elepneumatic) Recommended Alternative		
Description	Part Number	Future Status	Expected Date of Obsolescence	Part number	Mounting Interchangeability	Specification Details	
Interconnecting base	BAC3P10	To be obsoleted	31/03/2007	PZU-A12	Not interchangeable		
Integral base	BAC7P10	To be obsoleted	31/03/2007	No equivalent			
Independent base	BIC3P10	To be obsoleted	31/03/2007	No equivalent			
Independent base	BIC3P20	To be obsoleted	31/03/2007	No equivalent			
Memory independent base	BIC7P10	To be obsoleted	31/03/2007	PZU-B12	Not interchangeable		
Free standing base	BIC7P20	To be obsoleted	31/03/2007	PZU-B12	Not interchangeable		
Logic port adaptor 1 and 2	PI123P10	To be obsoleted	31/03/2007	No equivalent			
Logic port adaptor 2 and 3	PI233P10	To be obsoleted	31/03/2007	No equivalent			
Sub base	PA3CS2-20/21	To be obsoleted	31/03/2007	No equivalent			
Base	PA3CL2-20	To be obsoleted	31/03/2007	No equivalent			
Sub base	PR2CL2.20	To be obsoleted	31/03/2007	No equivalent			
Sub base	PR2CS2.20	To be obsoleted	31/03/2007	No equivalent			
		To be obsoleted					
Sub base	PR2N233	To be	31/03/2007	J5PK6-4 or K8-4			
Sub base G 1/8	LBSPUB10	To be					
Sub base 1/8NPT	LNPTUB10	retained To be					
Sub base G 1/8	LBSPSB10	retained To be					
Sub-base1/8NPT	LNPTSB10	retained To be					
Adjustable YES 0,1 to 1 bar	LAAY10/0	obsoleted To be	31/03/2007	No equivalent			
Adjustable YES 0,5 to 8 bar	LAAY10/1	obsoleted To be	31/03/2007	No equivalent			
Adjustable NOT 0,5 to 8 bar	LAAN10/1	obsoleted	31/03/2007	No equivalent			
Sensitive amplifier	LFAY10/0	To be obsoleted	31/03/2007	No equivalent			
Pressure amplifier	LFAY10/1	To be obsoleted	31/03/2007	No equivalent			
Flip-Flop	LMEM10	To be obsoleted	31/03/2007	PLM-A10 or -B10 or -A12			
Flow restrictor	LFR10	To be obsoleted	31/03/2007	No equivalent			
Precision flow restrictor	LTIM10	To be obsoleted	31/03/2007	No equivalent			
Frequency generator	LPG10/1	To be obsoleted	31/03/2007	No equivalent			
Pressure switch	LPS10/2	To be retained					
Pressure switch	LPS10/3	To be retained					
Plug and lead	LLEAD10	To be retained					
vacuum switch	LPSV10	To be retained					
NOT pressure switch	LNOTPS10	To be obsoleted	31/03/2007	No equivalent			
Pressure regulator	LPREG10	To be obsoleted	31/03/2007	No equivalent			
Logic manifold	LMAN10	To be obsoleted	31/03/2007	J5PK6-4			
Rail DIN	LDIN10	To be obsoleted	31/03/2007	AM1-D200			
Pneumatic totalizing counter	0 495 465	To be obsoleted	31/03/2007	PCT-B11			
Preselection counter	0 497 487	To be obsoleted	31/03/2007	PCP-A11			

CLIMAX/M.			M Parker (Telepneumatic) Recommended Al			
Description	Part Number	Future Status	Expected Date of Obsolescence	Part number	Mounting Interchangeability	Specification Details
<b>T</b>	0.407.050	To be	04/00/0007	DOM 444		
Timer with digital display	0 497 653	obsoleted	31/03/2007	PCM-A11		
Timer with calibrated dial 3 to100s	AC54022	To be obsoleted	31/03/2007	PCM-A12		
Two- hand control module	B3793	To be obsoleted	31/03/2007	PXP-A11		
Two- hand control module	B1218	To be obsoleted	31/03/2007	PXP-A11		
Two- hand control unit	BCB-3A-100	To be obsoleted	31/03/2007	PXP-C111		
Two- hand control unit	BCB-3B-100	To be obsoleted	31/03/2007	PXP-D121		
Two- hand control unit	BCB-3B-1S1	To be obsoleted	31/03/2007	No equivalent		
Two- hand control unit	BCB-3A-1S1	To be obsoleted	31/03/2007	No equivalent		
Two- hand control unit	BCB-3A-1S2	To be obsoleted	31/03/2007	No equivalent		
Low force push button valve	VLF3P4-302	To be obsoleted	31/03/2007	PXB-B3111BA3	Higher force required	

Product	Actuators	Valves	Air	Factory	Other			
Group:			Treatment	Automation	Products			
Title:	Logic proce	Logic processing: ATEX Certified Components Up date						
Catalogue:								
Date of Issue:	March 14 200	06						
Bulletin No:	<b>03</b> -06							



## **ATEX Certified: Logic Components Up date**

Please note some Logic components as sub-bases, created on September 2005, have been changed back to standard part numbers (for example PRS-D10-EX coil mounting will be obsolete and replaced by **PRS-D10**). Considering Notified Body argument, these accessories do not represent an intrinsic ignition risk, consequently they are not subdued to ATEX approval.

Hereafter the list of replaced components

Obsolete Part	Standard Part Numbers	
Numbers		Description
PLE-B12-EX	PLE-B12	Input module & blanking plate set
PRS-D10-EX	PRS-D10	Coil mounting
PSB-A12-EX	PSB-A12	Step module sub base
PSD-A12-EX	PSD-A12	Deviation module
PSD-B12-EX	PSD-B12	Derivation module reinitialization last step
PSE-A12-EX	PSE-A12	Head & tail module
PZU-A12-EX	PZU-A12	Common input 3 port sub-base
PZU-B12-EX	PZU-B12	Common input 4 port sub-base
PZU-C12-EX	PZU-C12	Cascade 3 ports sub-base
PZU-E12-EX	PZU-E12	Input module

### This is immediately applicable

We remain at your disposal for any further information. Sincerely.

Ollicerely,

#### Claude Barrabès

Pneumatic Division Europe ATEX-Logic Product Manager

Tél: 33 (0) 2 32 23 34 25 Fax: 33 (0) 2 32 23 34 88

Email :claude.barrabes@parker.com

Mob: 33 (0)6 75 09 79 79

Action Required								
Discard old Bulletin	Request new Catalogue	Add bulletin to Catalogue	Contact Factory	Check Stocks				
Issued by the Mark			umatic Division - EV 0, Fax : +33 (0)2 32					

Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Стоир.			rreament	Automation	Troducts			
Title:	Logic proce	Logic processing: ATEX Certified Components						
Catalogue:								
Date of Issue:	September 1	4 2005						
Bulletin No:	01-05							



# **ATEX Certified : Logic Components**





We are pleased to announce ATEX Logic components availability. Starting on September  $15^{\text{TH}}$  all products on the list below will include the an ATEX label, Instruction Sheet, and Declaration of Conformity.

Instruction sheet and Declaration of Conformity are shipped with each unit.

They will be in the following languages: English, French, German, Italian, Spanish and Swedish.

Note: It is the responsibility of the seller (Trading Sub or Distributor) to insure that the customer receives and understand this documentation. If another language is necessary for comprehension, please make the necessary translations.

### This is immediately applicable

We remain at your disposal for any further information. Sincerely,

#### Claude Barrabès

Pneumatic Division Europe ATEX-Logic Product Manager

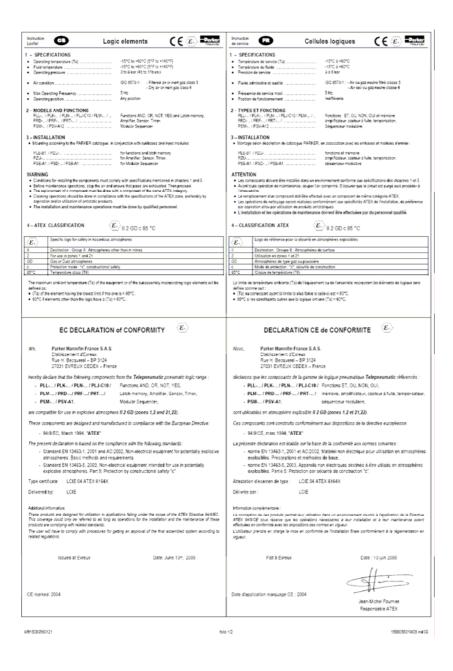
Tél: 33 (0) 2 32 23 34 25 Fax: 33 (0) 2 32 23 34 88

Email:claude.barrabes@parker.com

Mob: 33 (0)6 75 09 79 79

Action Required								
Discard old Bulletin	Request new Catalogue	Add bulletin to Catalogue	Contact Factory	Check Stocks				
Issued by the Mar	keting Department, F Phone :	Parker Hannifin Pne +33 (0)2 32 23 34 0						

Product Group:	Actuators	Valves	Air Treatment	Factory Automation	Other Products			
Стоир.			rreament	Automation	Troducts			
Title:	Logic proce	Logic processing: ATEX Certified Components						
Catalogue:								
Date of Issue:	September 1	4 2005						
Bulletin No:	01-05							



Action Required						
Discard old Bulletin	Request new Catalogue	Add bulletin to Catalogue	Contact Factory	Check Stocks		
Issued by the Marketing Department, Parker Hannifin Pneumatic Division - EVREUX France. Phone: +33 (0)2 32 23 34 00, Fax: +33 (0)2 32 23 34 88						

Product	Actuators	Valves	Air	Factory	Other	
Group:			Treatment	Automation	<b>Products</b>	
Title:	Logic processing: ATEX Certified Components					
Catalogue:						
Date of Issue:	September 1	4 2005				
Bulletin No:	01-05					

You will find, hereafter the new ATEX logic components Part Numbers, Interco & European List Price.

<b>Part Number</b>	Description		
PLE-B12-EX	Input module & blanking plate set		
PLJ-C10-EX	"YES" element subase mounting		
PLK-A11-EX	"OR" element line mounted		
PLK-B12-EX	"OR" combinable element		
PLK-C10-EX	"OR" element subase mounting		
PLL-A11-EX	"AND" element line mounted		
PLL-B12-EX	"AND" combinable element		
	"AND" element subase mounting		
	Memory relay without sub base		
	"NOT" combinable element		
	"NOT" element subase mounting std		
	"NOT" element subase mounting threshold		
	Amplifier relay without sub base		
	Sensor relay without sub base		
PRS-D10-EX			
PRT-A10-EX	"YES" timer relay 0,1 to 30s		
	"YES" timer relay 10 to 180s		
	"Negative" timer relay 0,1 to 30s		
PRT-D10-EX	"Negative" timer relay 10 to 180s		
	"YES" timer relay 0,1 to 3s		
PRT-F10-EX	"Negative" timer relay 0,1 to 3s		
	Step module sub base		
	Deviation module		
	Derivation module reinitialization last step		
	Head & tail module		
PSM-A10-EX			
	Step module interlock		
	Common input 3 port subase		
	Common input 4 port subase		
	Cascade 3 ports subase		
PZU-E12-EX	Input module		

Action Required						
Discard old	Request new	Add bulletin	Contact	Check		
Bulletin	Catalogue	to Catalogue	Factory	Stocks		
	_					
Issued by the Marketing Department, Parker Hannifin Pneumatic Division - EVREUX France.						
Phone: +33 (0)2 32 23 34 00, Fax: +33 (0)2 32 23 34 88						