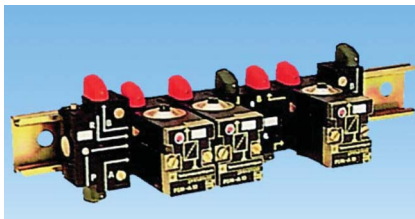


Parker Pneumatic ③ Logic

Logic



Modular Sequencer	P. 322
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AND, OR, Not Valve	P. 324
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Time Delay, Memory Relay Amplifier, Sensor Relay, Pressure Switch	P. 326
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Bleed Sensor, Proximity Sensor	P. 332
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Visual Indicators	P. 335
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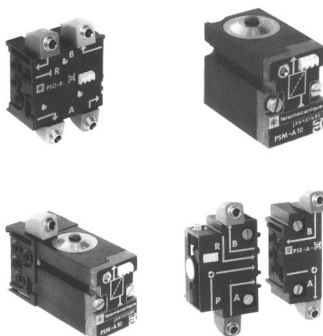
Counter, Timer	P.336
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Logic Component

PS□-A Series

Modular Sequencer

PSM	Step Module
PSE	End Kit Module
PSD	Connection Module
PSV	Interlock Step Module
PSB	Subbase

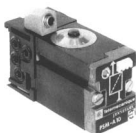


Specification

Model No	Unit	PSM	PSE	PSD	PSV
Pressure range	MPa(bar)	0.3 ~ 0.8 (3 ~ 8)			
Fluid		Non-lubricated / lubricated air			
Flow(at 6bar)	NI/min	180			
Temperature range	℃	-15 ~ +60			
Response time	ms	2 ~ 3			
Lifetime /6bar/20 ℃-1Hz	times	10 million			
Material		Body : Polyamide, Poppet : Polyurethane, Seal : NBR			
Port size		Φ 4mm fitting			
Mounting		DIN rail			

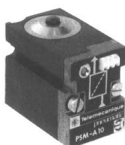
Modular sequencer

• Step modules(with subbase)



Order key	Symbol	Logic function	Description	Swivel push-in connection	Weight (kg)
PSM-A12		Visual indication of pneumatic output and manual override	with PSB-A12 subbase	φ 4mm	0.175
PSM-B12		Without manual override			0.170

• Step modules memory(For mounting on PSB-A12 subbase)



PSM-A10		Pneumatic output display by indicator	with manual override	-	0.135
PSM-B10		-	Without manual override		0.130

• Set of head and tail modules



PSE-A12		-	Pressure supply(P) by φ 6mm instant connection. Protection by 50 μm filter.	0.080
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• Deviation modules



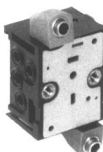
PSD-A12		Used for - parallel sequences - optional sequences - repeat sequences - skip step	φ 4mm	0.050
PSD-B12		for the remote reset of the last step module	-	

• Additional step modules interlock



PSV-A12		Maybe mounted between the subbase and the step module to interrupt the sequence if a sensor is found to be faulty.	φ 4mm	0.045
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• Step module subbase



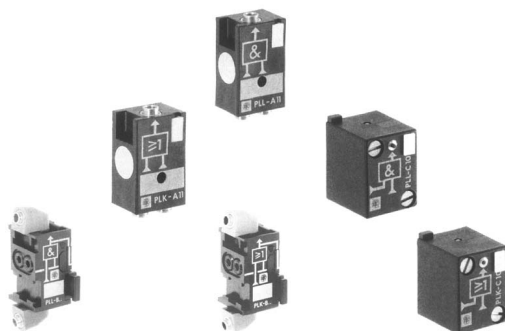
PSB-A12	-	-	Subbase	φ 4mm	0.040
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Logic Component

PL Series

AND, OR, NOT Valve

PLL	Logic Valve AND Valve
PLK	Logic Valve OR Valve
PLN	Logic Valve NOT Valve
PLE	Logic Valve Input Module
PLJ	Logic Valve YES Valve
PZU	Logic Valve Subbase



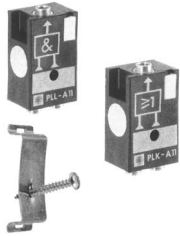
Specification

Model No	Unit	PLL	PLK	PLN	PLE	PLJ	PZU
Pressure range	MPa(bar)	0.3 ~ 0.8 (3 ~ 8)					Max.0.8(8)
Fluid		Non-lubricated air					
Flow(at 6bar)	NI/min	180		90/180			
Temperature range	℃	-15 ~ +60					
Response time	ms	2 ~ 3					
Lifetime /6bar/20 ℃-1Hz	times	1 billion		10 million			
Material		Body : Polyamide, Poppet : Polyurethane, Seal : NBR					
Port size		φ4mm fitting					
Mounting		DIN rail, Surface					

AND, OR, NOT valve

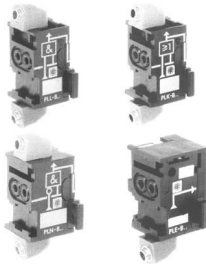
Main data for logic elements, Stand alone

• Line mounted logic elements



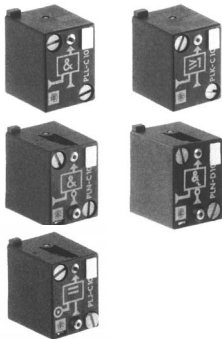
Order key	Symbol	Logic function	Description	Swivel push-in connection	Weight (kg)
PLL-A11		AND	Single module	φ 4mm	0.07
PLK-A11		OR		φ 4mm	
PZM-L119		Screw and clip assembly	Enables line mounted logic elements to be mounted on omega rail(pack of 10)		0.02

• Combinable logic elements



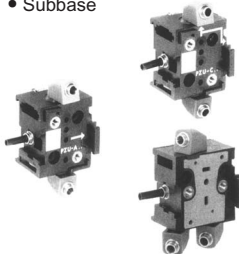
PLL-B12		AND	with built-in key for combination and operating mode selection	φ 4mm	0.080
PLK-B12		OR			
PLN-B12		NOT			
PLE-B12		Input			

• Subbase mounting logic elements



PLL-C10		AND	For mounting on 3-port subbase, with output signal pressure indicator	0.03
PLK-C10		OR		
PLN-C10		NOT	For mounting on 3-port subbase, with input and output signal pressure indicator	
PLN-D10		NOT		
PLJ-C10		YES regenerate	with visual indication of pneumatic in/output signal	

• Subbase



PZU-A12 (3-port subbase)		-	with common input	φ 4mm	0.04
PZU-C12 (3-port subbase)			Cascade		
PZU-B12 (4-port subbase)		-	For combination with memory relay and amplifier relay	φ 4mm	0.05
PZU-E12 (Input module)		-			

Logic Component

PR(L) ☐ Series

Time Delay, Memory Relay, Amplifier, Sensor Relay, Pressure Switch

PRT-☐ Time Delay Relay

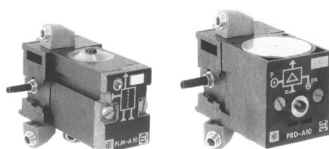
PLM-☐ Memory Relay

PRD-☐ Amplifier Relay

PRF-☐ Sensor Relay

PRS-☐ Solenoid Actuator

PRE-☐ Pressure Switch



Specification

Model No	Unit	PRT	PLM	PRD	PRF	PRS	PRE
Pressure range	MPa(bar)	0.3 ~ 0.8 (3 ~ 8)					Max 0.8 (8)
Fluid		Non-lubricated air					
Flow (at 6bar)	NI/min,	180		90	180	60	-
Temperature range	℃	-15 ~ +60					
Response time	ms	2 ~ 3				8 ~ 12	2 ~ 3
Lifetime /6bar/20 ℃-1Hz	times	10 million					
Material		Body : Polyamide, Poppet : Polyurethane, Seal : NBR					
Port size		Φ4mm fitting					
Mounting		DIN rail					

Time delay and memory relays

Time delay relays

- Complete with subbase PZU-A12



ORDER KEY	Symbol	Function	Timing range	Connection	Weight (kg)
PRT-A12		Output after timed period	0.1~30s	φ 4mm	0.17

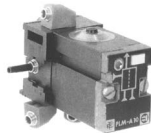
- Time delay relays without subbase(PZU-A12,PZU-C12)



PRT-E10		closed type (N 129)	0.1~3 s	-	0.13
PRT-A10			0.1~30 s		
PRT-B10			10~180 s		
PRT-F10		open type (NP)	0.1~3 s		
PRT-C10			0.1~30 s		
PRT-D10			10~180 s		
LA9-D901	Tamper proof cap				0.030

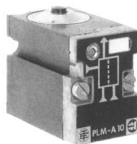
Memory

- Complete with subbase PZU-B12



ORDER KEY	Symbol	Function	Connection	Weight (kg)
PLM-A12		With priority reset signal and visual indication with manual override	φ 4mm	0.19

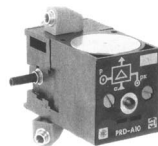
- Time delay relays without subbase(PZU-B12)



PLM-A10		With priority reset signal and visual indication with manual override	φ 4mm	0.03
PLM-B10		without manual override		0.04

Amplifier relays

- Amplifier relay complete with subase(PZU-B12)



PRD-A12		This relay is used to amplify the low pressure signal provided by a fluidic proximity sensor to a useable level with manual override	φ 4mm	0.18
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- Amplifier relay without subase(PZU-B12)



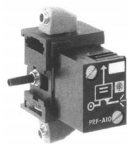
PRD-A10		This relay is used to amplify the low pressure signal provided by a fluidic proximity sensor to a useable level with manual override	φ 4mm	0.13
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PR□ Series

Sensor relays

Sensor relays

- Sensor relay Complete with subbase PZU-A12



ORDER KEY	Symbol	Function	Connection	Weight (kg)
PRF-A12		This relay is used to supply a bleed sensor and to generate a pneumatic signal equal to its supply pressure.	ϕ 4mm	0.07

- Sensor relay without subbase



PRF-A10		This relay is used to supply a bleed sensor and to generate a pneumatic signal equal to its supply pressure.	ϕ 4mm	0.03
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Pressure switches and Solenoid actuators

Pressure switches

- Complete units with subbase, solenoid and cable plug



ORDER KEY	Symbol	Electrical characteristics	Pneumatic characteristics	Connection	Weight (kg)
PRE-A12		N/O Contact	-	22 x 30 plug-in ø 4mm swivel push-in	0.13

- Without subbase



PRE-A10		-	-	22 x 30 plug-in ø 4mm swivel push-in	0.04
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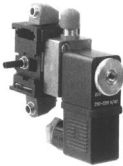
- Line-mounted pressure switches



PS1-P1081		1CO Contact 5A / 250V	Fixed operating threshold	ø 4mm push-in	0.05
PS1-P1901			Adjustable operating threshold		

Solenoid actuators

- Complete unit, solenoid and cable plug



ORDER KEY	Symbol	Voltage	Load	Manual	Connection	Weight (kg)	
PRS-A121B		24V~50/60Hz	8.5VA	Manual override	22×30 Plug-in	0.17	
PRS-A122B		24V	6W				
PRS-A121F		115V~50Hz 120v~60Hz	8.5VA				
PRS-A122M		230V~50Hz 240v~60Hz					

Solenoid mounting base



PRS-D10	For mounting the solenoid coil and plunger on 3-port modular subbase type PZU-A12	Manual override	-	0.09
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- Solenoid coil



ORDER KEY	Symbol	Voltage	Load	Manual	Connection	Weight (kg)
PVA-F102B	-	24V*	6W	-	22 x 30 Plug-in	0.135
PVA-F102E		48V*	6W			
PVA-F101B	-	24V~50/60Hz	8.5VA	-	22 x 30 Plug-in	0.135
PVAF101E		48V~50/60Hz				
PVA-F101F		115V~50Hz 120V~60Hz				
PVA-F101M		230V~50Hz 240V~60Hz				
PVA-F101U		255V~50Hz				

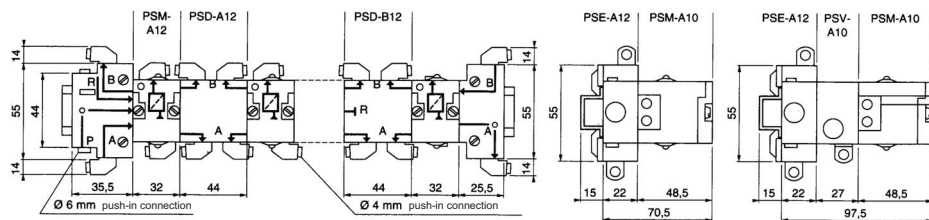
* Versions available for operation explosive atmospheres.

Logic Series

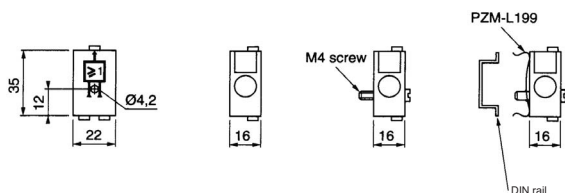
Dimensions

(unit : mm)

Modular sequencer



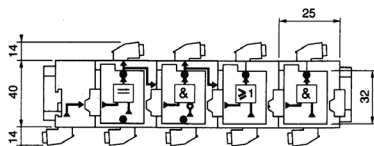
Line mounted logic elements PLL-A11 and PLK-A11



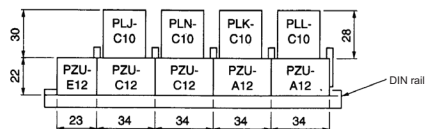
Combinable logic elements (PLE-B12-PLL-B12-PLK-B12 and PLN-B12)



Logic elements mounted on 3-port modular subbases PZU-E12



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

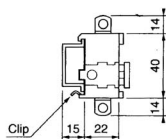
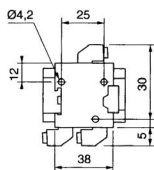
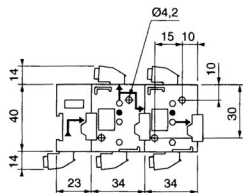


Dimensions

(unit : mm)

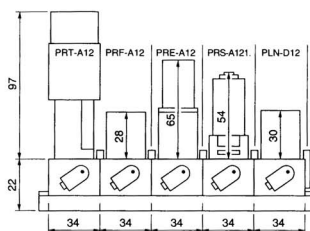
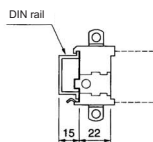
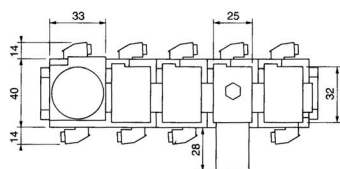
3 and 4-port modular subbases

PZU-E12—PZU-C12—PZU-A12 and PZU-B12



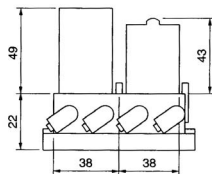
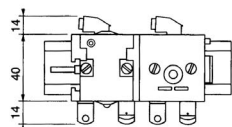
Relays mounted on 3-port modular subbases

PRT-A12—PRF-A12—PRE-A12—PRS-A121 AND PLN-D12



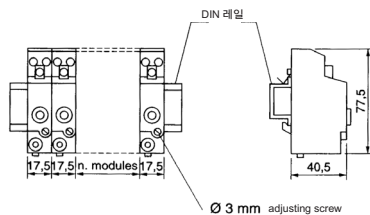
Relays mounted on 4-port modular subbases

Relays Mounted on PLM-A12 and PRD-A12



Pressure switch

PS1-P1091

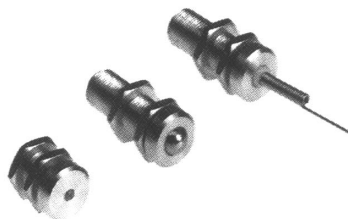


Air Operated Sensors

PXF(D) Series

Bleed sensor, Proximity sensor

PXF-A	2/2 Way Bleed sensor φ 4mm push-in, M5
PRF-A	Bleed sensor relay φ 4mm push-in
PXD-A	Fluidic proximity sensors
PRD-A	Amplifier relay 4 port subbase



Specification

Model No	Unit	PXF-A11 ●	PXF-A12 ●	PXF-A13 ●	PXD-A11 ●
Minimum operating distance	mm	-	1 mm	-	-
Maximum operating distance	mm	-	2.8mm	-	-
Minimum operating force	daN	-	0.3 daN	-	-
Minimum operating torque	daN	-	-	1.25(center of operator)	-
Sensing distance	mm	direct			1~5
Sensing angle		-	-	10°	-

※ Above sensor is at supply pressure 6 bar.

- Bleed sensor : Bleed sensors make it possible to sense very low actuating forces or small movements and are very compact. They are easy to install and connect as they only require a single tube. However, the length of the interconnecting tube must remain short if quick response time are required.
- Bleed sensors relay : Provides a supply to a bleed sensor and generates a pneumatic signal to bleed sensor operated.
- Fluidic proximity sensors : Certain applications sometimes require detection without physical contact, particularly where the object to be detected is fragile or soft. The technique detection by fluidic proximity sensor provides the ideal solution to this need.
- Amplifier relay : This relay amplifies the very low pressure signal coming from a fluidic proximity sensor to industrial pressure level. With manual control.

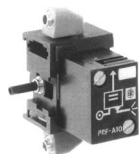
Air operated sensor

• Bleed sensors(For use with PRF-A12 relay)



ORDER KEY	Symbol	Connection	Actuator	Return	Operating forces(N)	Weight (kg)
PXF-A111		φ 4mm	Direct acting	-	3	0.03
PXFA115		M5		-		
PXF-A121		φ 4mm	Ball roller	Spring	0.125 Nm	0.035
PXF-A125		M5				
PXF-A131		φ 4mm	Cat's whiskers			
PXF-A135		M5				

• Bleed sensors relay



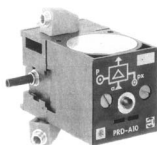
PRF-A12		φ 4mm	Provides a supply to a bleed sensor and generates a pneumatic signal to its supply pressure when the bleed sensor operates.	0.07
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• Fluidic proximity sensors



ORDER KEY	Sensing distance	Mounting	Connection	Weight (kg)
PXD-A111	2~5 mm	M12 × 1	φ 4mm push-in	0.06
PXD-A115			M5	0.34

• Amplifier relay(Supplied with 4 port subbaes)



ORDER KEY	Symbol	Function	Connection	Weight (kg)
PWE-A1898		This relay amplifies the very low pressure signal coming from a fluidic proximity sensor to industrial pressure level. With manual control.	φ 4mm push-in	0.175

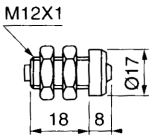
PXF(D) Series

Dimensions

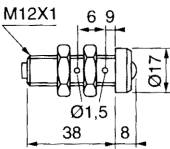
(Unit : mm)

Bleed sensors

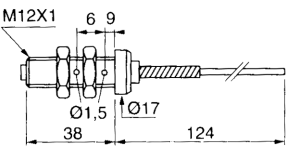
PXF-A111



PXF-A121

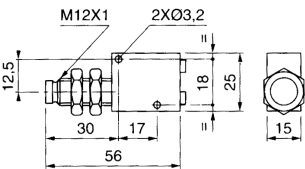


PXF-A131

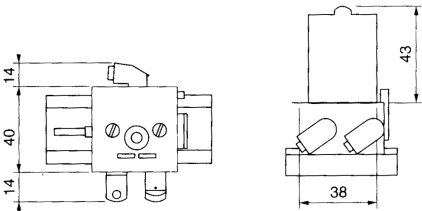


Fluid proximity sensors and amplifier relay

PXD-A11●



PRD-A12



Visual Indicators

PXV Series

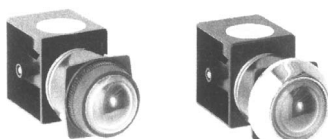
φ 22mm, φ 30mm

PXV-F

Visual Indicators
φ 22mm

PXV-M

Visual Indicators
φ 30mm



Specification

Model No	Unit	PXV-F1	PXV-M1
Fluids		air or neutral gas 50μm filtration, lubricated or not	
Operating pressure	MPa(bar)	0.1 ~ 0.8(1~8)	
Operating temperature	℃	-15 ~ 60	
Materials		Body : Plastic	
Connections		φ 4mm fitting	

φ 22mm Visual Indicators

- Black plastic bezel(In the actuated mode)



Order key	Symbol	Color	Weight (kg)
PXV-F131		Green	0.080
PXV-F141		Red	
PXV-F151		Yellow	
PXV-F161		Blue	
PXV-F111		White	
PXV-F1213		Green	0.080
PXV-F1214		Red	
PXV-F1215		Yellow	
PXV-F1216		Blue	
PXV-F1211		White	

φ 30mm Visual Indicators

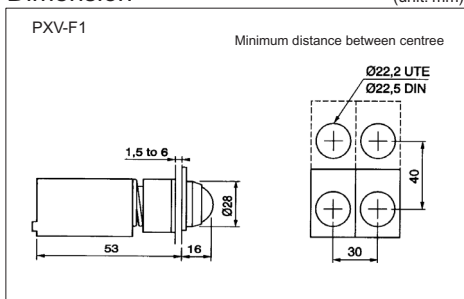
- Chrome plate bezel(In the unactuated mode)



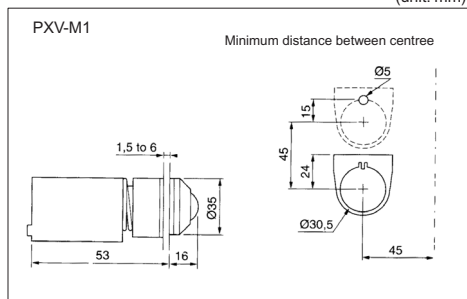
Order key	Symbol	Color	Weight (kg)
PXV-M131		Green	0.085
PXV-M141		Red	
PXV-M151		Yellow	

Dimension

(unit: mm)

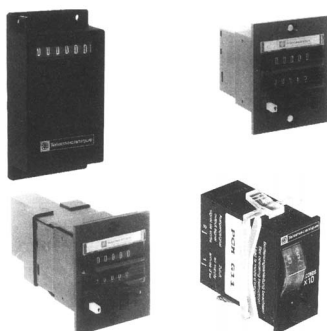


(unit: mm)



PC□-□ Series

PCT-A, B	Counter
PCP-A, S	Preselection Counter
PCM-A, B, E	Timer with digital display
PCM-F, G	Timer with calibrated dial



Specification

Model no	Unit	PCT-A, B	PCP-A, S	PCM-A, B, E	PCM-F, G
Pressure range	MPa(bar)	0.3 ~ 0.6(3 ~ 6)			0.2 ~ 0.6(2 ~ 6)
Fluid		Non-lubricated air			
Temperature range	℃	0 ~ 60			
Storage temperature	℃	-40 ~ +70			
Life time/6bar/20 ℃-1Hz	times	10 billion			50 billion
Port size		φ4mm fitting			
Mounting		Surface mounting	panel mounting		

Impulse counters and Timers

Impulse counters

- Totalising counters



(PCT-A11)



(PCT-A12)

Order key	Symbol	Counting range	Mounting	Weight (kg)
PCT-A11		0~999 999	Surface mounting	0.08
PCT-A12			Flush mounting	0.06

※ With pneumatic or manual reset.

- Pre-selection counters



(PCP-A11)



(PCP-S11)

PCP-A11		0~99 999	Flush mounting	0.12
PCP-S11				0.11

※ With pneumatic or manual reset.

Timers

- Digital display



Order key	Symbol	Time base	Time range	Weight (kg)
PCM-A11		1 second	1 second ~ 27 hours	0.20
PCM-B11		1 minute	1 minute ~ 69 days	
PCM-E11		2 minute	3 minute ~ 100 minute	

※ With pneumatic or manual reset.

- Calibrated dial

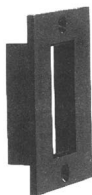


Order key	Symbol	Time base	Time range	Weight (kg)
PCM-F11		1 second	2~30 seconds	0.05
PCM-G11			20~300 seconds	

PC Series

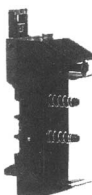
Accessories

• Mounting bezels



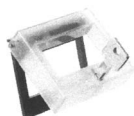
ORDER KEY	Description	Weight (kg)
PXC-ZM6075	For PCM-F11 and PCM-G11 mounting in 60 × 75 mm cutout	0.015
PXC-ZM7272	For PCM-F11 and PCM-G11 mounting in 72 × 72 mm cutout	

• Bezels for omega rail mounting



PCM-ZA35	For (non-reversible) clip-on mounting of PCM-F11 and PCM-G11 on push-in connection subbase	0.020
PCM-ZE35	35 mm omega rail latching device for PXC-ZA35 subbase	0.010

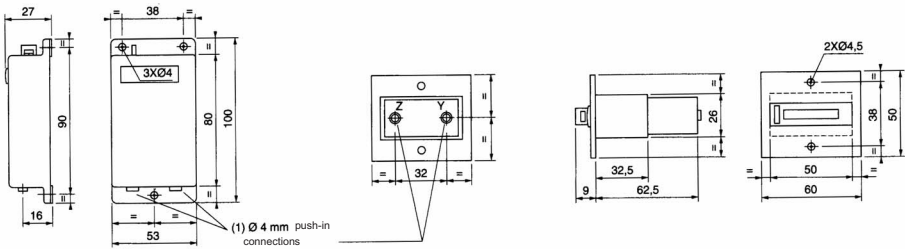
• Lockable cover(Degree of protection IP55)



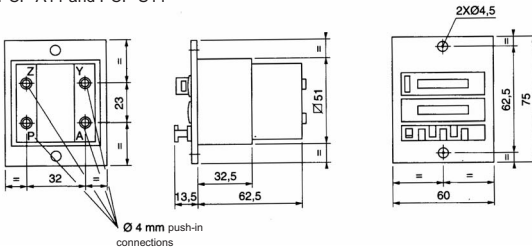
PXC-B1	Transparent cover key lockable for 60 × 75 mm brzel PCP-A11, PCP-S11, PCP-MA11, PCP-MB11	0.025
PXC-A1	For PCT-B11	0.018

Accessories

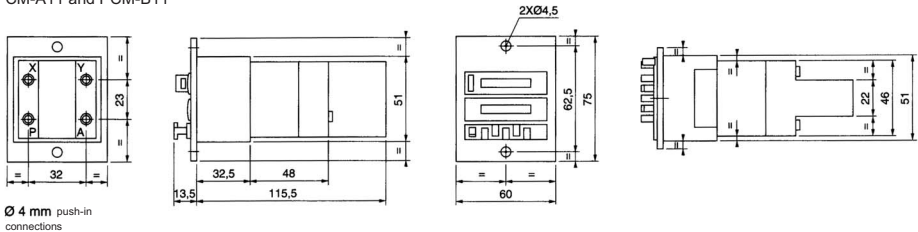
Totalising counters PCT-A11 PCT-B11



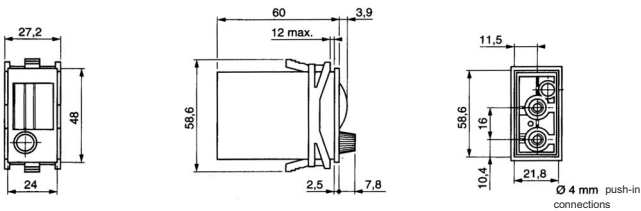
Preselection counters PCP-A11 and PCP-S11



Digital display timers PCM-A11 and PCM-B11

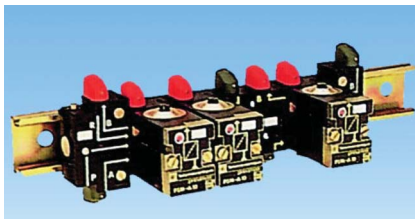


Timers with calibrated dial PCM-F11 and PCM-G11



Parker Pneumatic ③ Logic

Logic



Modular Sequencer	P. 322
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AND, OR, Not Valve	P. 324
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Time Delay, Memory Relay Amplifier, Sensor Relay, Pressure Switch	P. 326
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Bleed Sensor, Proximity Sensor	P. 332
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Visual Indicators	P. 335
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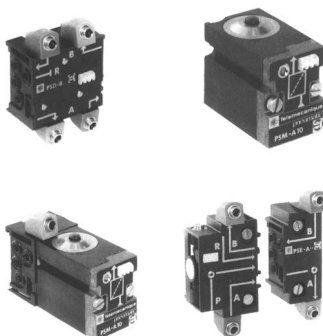
Counter, Timer	P.336
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Logic Component

PS□-A Series

Modular Sequencer

PSM	Step Module
PSE	End Kit Module
PSD	Connection Module
PSV	Interlock Step Module
PSB	Subbase

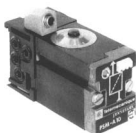


Specification

Model No	Unit	PSM	PSE	PSD	PSV
Pressure range	MPa(bar)	0.3 ~ 0.8 (3 ~ 8)			
Fluid		Non-lubricated / lubricated air			
Flow(at 6bar)	NI/min	180			
Temperature range	℃	-15 ~ +60			
Response time	ms	2 ~ 3			
Lifetime /6bar/20 ℃-1Hz	times	10 million			
Material		Body : Polyamide, Poppet : Polyurethane, Seal : NBR			
Port size		Φ 4mm fitting			
Mounting		DIN rail			

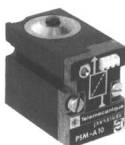
Modular sequencer

• Step modules(with subbase)



Order key	Symbol	Logic function	Description	Swivel push-in connection	Weight (kg)
PSM-A12		Visual indication of pneumatic output and manual override	with PSB-A12 subbase	φ 4mm	0.175
PSM-B12		Without manual override			0.170

• Step modules memory(For mounting on PSB-A12 subbase)



PSM-A10		Pneumatic output display by indicator	with manual override	-	0.135
PSM-B10		-	Without manual override		0.130

• Set of head and tail modules



PSE-A12		-	Pressure supply(P) by φ 6mm instant connection. Protection by 50μm filter.	0.080
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• Deviation modules



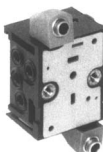
PSD-A12		Used for - parallel sequences - optional sequences - repeat sequences - skip step	φ 4mm	0.050
PSD-B12		for the remote reset of the last step module	-	

• Additional step modules interlock



PSV-A12		Maybe mounted between the subbase and the step module to interrupt the sequence if a sensor is found to be faulty.	φ 4mm	0.045
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• Step module subbase



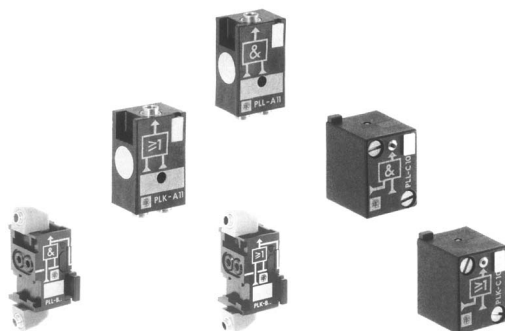
PSB-A12	-	-	Subbase	φ 4mm	0.040
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Logic Component

PL Series

AND, OR, NOT Valve

PLL	Logic Valve AND Valve
PLK	Logic Valve OR Valve
PLN	Logic Valve NOT Valve
PLE	Logic Valve Input Module
PLJ	Logic Valve YES Valve
PZU	Logic Valve Subbase



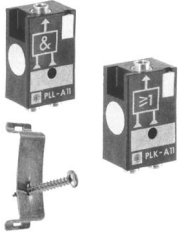
Specification

Model No	Unit	PLL	PLK	PLN	PLE	PLJ	PZU
Pressure range	MPa(bar)	0.3 ~ 0.8 (3 ~ 8)					Max.0.8(8)
Fluid		Non-lubricated air					
Flow(at 6bar)	NI/min	180		90/180			
Temperature range	℃	-15 ~ +60					
Response time	ms	2 ~ 3					
Lifetime /6bar/20 ℃-1Hz	times	1 billion		10 million			
Material		Body : Polyamide, Poppet : Polyurethane, Seal : NBR					
Port size		φ4mm fitting					
Mounting		DIN rail, Surface					

AND, OR, NOT valve

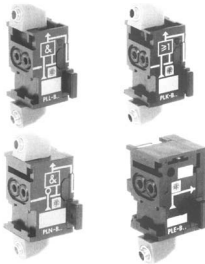
Main data for logic elements, Stand alone

• Line mounted logic elements



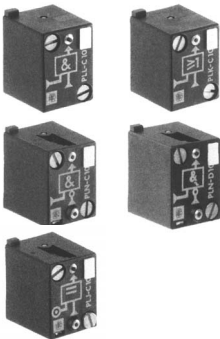
Order key	Symbol	Logic function	Description	Swivel push-in connection	Weight (kg)
PLL-A11		AND	Single module	φ 4mm	0.07
PLK-A11		OR		φ 4mm	
PZM-L119		Screw and clip assembly	Enables line mounted logic elements to be mounted on omega rail(pack of 10)		0.02

• Combinable logic elements



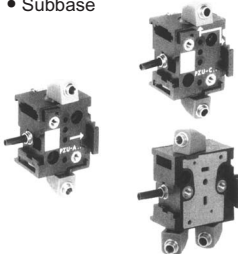
PLL-B12		AND	with built-in key for combination and operating mode selection	φ 4mm	0.080
PLK-B12		OR			
PLN-B12		NOT			
PLE-B12		Input			

• Subbase mounting logic elements



PLL-C10		AND	For mounting on 3-port subbase, with output signal pressure indicator	0.03
PLK-C10		OR		
PLN-C10		NOT	For mounting on 3-port subbase, with input and output signal pressure indicator	
PLN-D10		NOT		
PLJ-C10		YES regenerate	with visual indication of pneumatic in/output signal	

• Subbase



PZU-A12 (3-port subbase)		-	with common input	φ 4mm	0.04
PZU-C12 (3-port subbase)			Cascade		
PZU-B12 (4-port subbase)		-	For combination with memory relay and amplifier relay	φ 4mm	0.05
PZU-E12 (Input module)		-			

Logic Component

PR(L) ☐ Series

Time Delay, Memory Relay, Amplifier, Sensor Relay, Pressure Switch

PRT-☐ Time Delay Relay

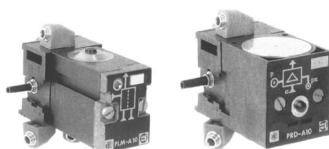
PLM-☐ Memory Relay

PRD-☐ Amplifier Relay

PRF-☐ Sensor Relay

PRS-☐ Solenoid Actuator

PRE-☐ Pressure Switch



Specification

Model No	Unit	PRT	PLM	PRD	PRF	PRS	PRE
Pressure range	MPa(bar)	0.3 ~ 0.8 (3 ~ 8)					Max 0.8 (8)
Fluid		Non-lubricated air					
Flow (at 6bar)	NI/min,	180		90	180	60	-
Temperature range	℃	-15 ~ +60					
Response time	ms	2 ~ 3				8 ~ 12	2 ~ 3
Lifetime /6bar/20 ℃-1Hz	times	10 million					
Material		Body : Polyamide, Poppet : Polyurethane, Seal : NBR					
Port size		Φ4mm fitting					
Mounting		DIN rail					

Time delay and memory relays

Time delay relays

- Complete with subbase PZU-A12



ORDER KEY	Symbol	Function	Timing range	Connection	Weight (kg)
PRT-A12		Output after timed period	0.1~30s	φ 4mm	0.17

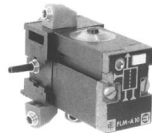
- Time delay relays without subbase(PZU-A12,PZU-C12)



PRT-E10		closed type (N 129)	0.1~3 s	-	0.13
PRT-A10			0.1~30 s		
PRT-B10			10~180 s		
PRT-F10		open type (NP)	0.1~3 s		
PRT-C10			0.1~30 s		
PRT-D10			10~180 s		
LA9-D901	Tamper proof cap				0.030

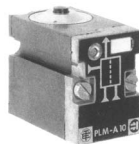
Memory

- Complete with subbase PZU-B12



ORDER KEY	Symbol	Function	Connection	Weight (kg)
PLM-A12		With priority reset signal and visual indication with manual override	φ 4mm	0.19

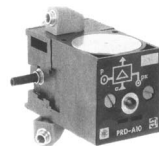
- Time delay relays without subbase(PZU-B12)



PLM-A10		With priority reset signal and visual indication with manual override	φ 4mm	0.03
PLM-B10		without manual override		0.04

Amplifier relays

- Amplifier relay complete with subase(PZU-B12)



PRD-A12		This relay is used to amplify the low pressure signal provided by a fluidic proximity sensor to a useable level with manual override	φ 4mm	0.18
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- Amplifier relay without subase(PZU-B12)



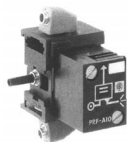
PRD-A10		This relay is used to amplify the low pressure signal provided by a fluidic proximity sensor to a useable level with manual override	φ 4mm	0.13
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PR□ Series

Sensor relays

Sensor relays

- Sensor relay Complete with subbase PZU-A12



ORDER KEY	Symbol	Function	Connection	Weight (kg)
PRF-A12		This relay is used to supply a bleed sensor and to generate a pneumatic signal equal to its supply pressure.	ϕ 4mm	0.07

- Sensor relay without subbase



PRF-A10		This relay is used to supply a bleed sensor and to generate a pneumatic signal equal to its supply pressure.	ϕ 4mm	0.03
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Pressure switches and Solenoid actuators

Pressure switches

- Complete units with subbase, solenoid and cable plug



ORDER KEY	Symbol	Electrical characteristics	Pneumatic characteristics	Connection	Weight (kg)
PRE-A12		N/O Contact	-	22 x 30 plug-in ø 4mm swivel push-in	0.13

- Without subbase



PRE-A10		-	-	22 x 30 plug-in ø 4mm swivel push-in	0.04
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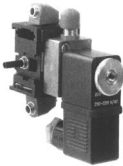
- Line-mounted pressure switches



PS1-P1081		1CO Contact 5A / 250V	Fixed operating threshold	ø 4mm push-in	0.05
PS1-P1901			Adjustable operating threshold		

Solenoid actuators

- Complete unit, solenoid and cable plug



ORDER KEY	Symbol	Voltage	Load	Manual	Connection	Weight (kg)
PRS-A121B		24V~50/60Hz	8.5VA	Manual override	22 × 30 Plug-in	0.17
PRS-A122B		24V	6W			
PRS-A121F		115V~50Hz 120v~60Hz	8.5VA			
PRS-A122M		230V~50Hz 240v~60Hz				

Solenoid mounting base



PRS-D10	For mounting the solenoid coil and plunger on 3-port modular subbase type PZU-A12	Manual override	-	0.09
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- Solenoid coil



ORDER KEY	Symbol	Voltage	Load	Manual	Connection	Weight (kg)
PVA-F102B	-	24V*	6W	-	22 x 30 Plug-in	0.135
PVA-F102E		48V*	6W			
PVA-F101B	-	24V~50/60Hz	8.5VA	-	22 x 30 Plug-in	0.135
PVA-F101E		48V~50/60Hz				
PVA-F101F		115V~50Hz 120V~60Hz				
PVA-F101M		230V~50Hz 240V~60Hz				
PVA-F101U		255V~50Hz				

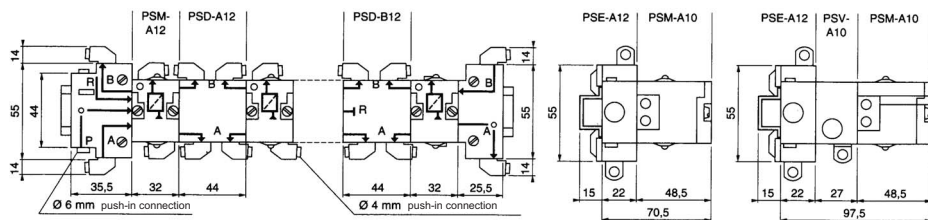
* Versions available for operation explosive atmospheres.

Logic Series

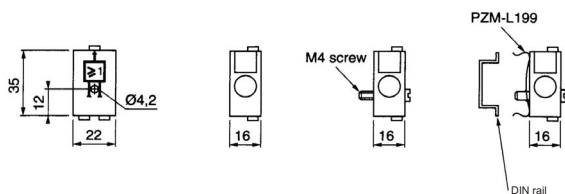
Dimensions

(unit : mm)

Modular sequencer



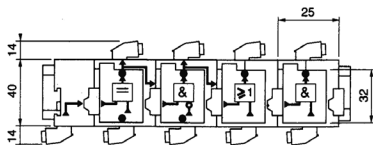
Line mounted logic elements PLL-A11 and PLK-A11



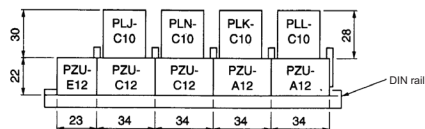
Combinable logic elements (PLE-B12-PLL-B12-PLK-B12 and PLN-B12)



Logic elements mounted on 3-port modular subbases PZU-E12



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

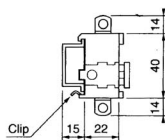
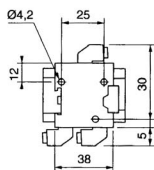
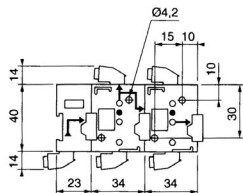


Dimensions

(unit : mm)

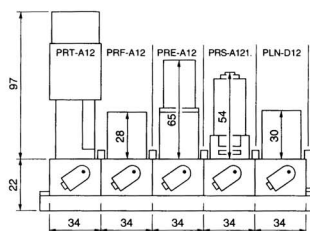
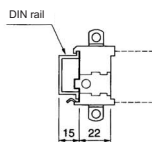
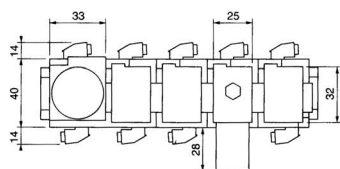
3 and 4-port modular subbases

PZU-E12—PZU-C12—PZU-A12 and PZU-B12



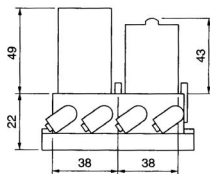
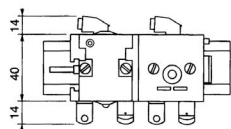
Relays mounted on 3-port modular subbases

PRT-A12—PRF-A12—PRE-A12—PRS-A121 AND PLN-D12



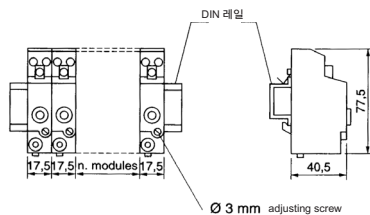
Relays mounted on 4-port modular subbases

Relays Mounted on PLM-A12 and PRD-A12



Pressure switch

PS1-P1091

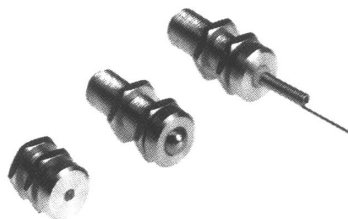


Air Operated Sensors

PXF(D) Series

Bleed sensor, Proximity sensor

PXF-A	2/2 Way Bleed sensor φ 4mm push-in, M5
PRF-A	Bleed sensor relay φ 4mm push-in
PXD-A	Fluidic proximity sensors
PRD-A	Amplifier relay 4 port subbase



Specification

Model No	Unit	PXF-A11 ●	PXF-A12 ●	PXF-A13 ●	PXD-A11 ●
Minimum operating distance	mm	-	1 mm	-	-
Maximum operating distance	mm	-	2.8mm	-	-
Minimum operating force	daN	-	0.3 daN	-	-
Minimum operating torque	daN	-	-	1.25(center of operator)	-
Sensing distance	mm	direct			1~5
Sensing angle		-	-	10°	-

※ Above sensor is at supply pressure 6 bar.

- Bleed sensor : Bleed sensors make it possible to sense very low actuating forces or small movements and are very compact. They are easy to install and connect as they only require a single tube. However, the length of the interconnecting tube must remain short if quick response time are required.
- Bleed sensors relay : Provides a supply to a bleed sensor and generates a pneumatic signal to bleed sensor operated.
- Fluidic proximity sensors : Certain applications sometimes require detection without physical contact, particularly where the object to be detected is fragile or soft. The technique detection by fluidic proximity sensor provides the ideal solution to this need.
- Amplifier relay : This relay amplifies the very low pressure signal coming from a fluidic proximity sensor to industrial pressure level. With manual control.

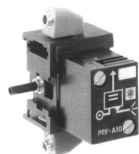
Air operated sensor

• Bleed sensors(For use with PRF-A12 relay)



ORDER KEY	Symbol	Connection	Actuator	Return	Operating forces(N)	Weight (kg)
PXF-A111		φ 4mm	Direct acting	-	3	0.03
PXFA115		M5		-		
PXF-A121		φ 4mm	Ball roller	Spring	0.125 Nm	0.035
PXF-A125		M5				
PXF-A131		φ 4mm	Cat's whiskers			
PXF-A135		M5				

• Bleed sensors relay



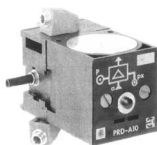
PRF-A12		φ 4mm	Provides a supply to a bleed sensor and generates a pneumatic signal to its supply pressure when the bleed sensor operates.	0.07
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• Fluidic proximity sensors



ORDER KEY	Sensing distance	Mounting	Connection	Weight (kg)
PXD-A111	2~5 mm	M12 × 1	φ 4mm push-in	0.06
PXD-A115			M5	0.34

• Amplifier relay(Supplied with 4 port subbaes)



ORDER KEY	Symbol	Function	Connection	Weight (kg)
PWE-A1898		This relay amplifies the very low pressure signal coming from a fluidic proximity sensor to industrial pressure level. With manual control.	φ 4mm push-in	0.175

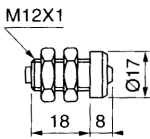
PXF(D) Series

Dimensions

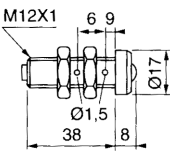
(Unit : mm)

Bleed sensors

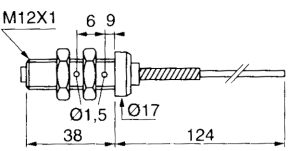
PXF-A111



PXF-A121

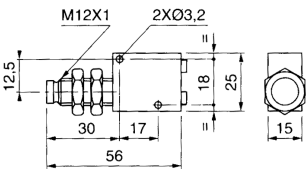


PXF-A131

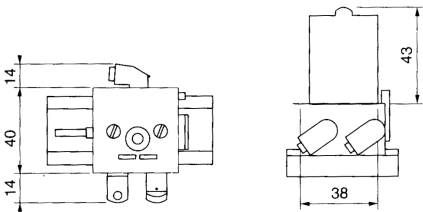


Fluid proximity sensors and amplifier relay

PXD-A11●



PRD-A12



Visual Indicators

PXV Series

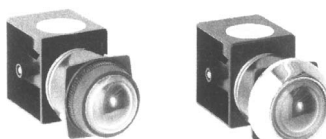
φ 22mm, φ 30mm

PXV-F

Visual Indicators
φ 22mm

PXV-M

Visual Indicators
φ 30mm



Specification

Model No	Unit	PXV-F1	PXV-M1
Fluids		air or neutral gas 50 μ m filtration, lubricated or not	
Operating pressure	MPa(bar)	0.1 ~ 0.8(1~8)	
Operating temperature	℃	-15 ~ 60	
Materials		Body : Plastic	
Connections		φ 4mm fitting	

φ 22mm Visual Indicators

- Black plastic bezel(In the actuated mode)



Order key	Symbol	Color	Weight (kg)
PXV-F131		Green	0.080
PXV-F141		Red	
PXV-F151		Yellow	
PXV-F161		Blue	
PXV-F111		White	
PXV-F1213		Green	0.080
PXV-F1214		Red	
PXV-F1215		Yellow	
PXV-F1216		Blue	
PXV-F1211		White	

φ 30mm Visual Indicators

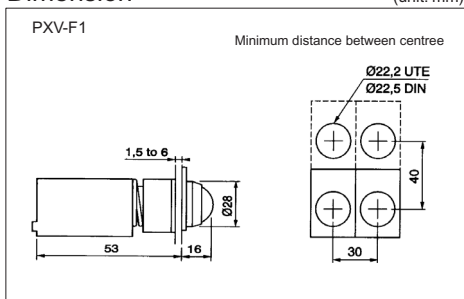
- Chrome plate bezel(In the unactuated mode)



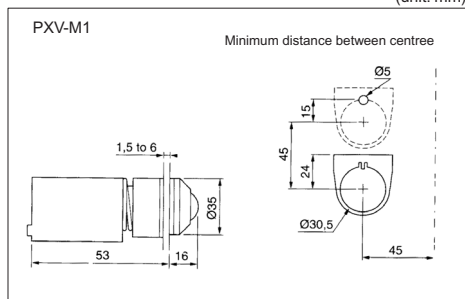
Order key	Symbol	Color	Weight (kg)
PXV-M131		Green	0.085
PXV-M141		Red	
PXV-M151		Yellow	

Dimension

(unit: mm)

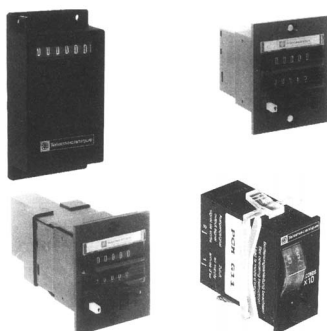


(unit: mm)



PC□-□ Series

PCT-A, B	Counter
PCP-A, S	Preselection Counter
PCM-A, B, E	Timer with digital display
PCM-F, G	Timer with calibrated dial



Specification

Model no	Unit	PCT-A, B	PCP-A, S	PCM-A, B, E	PCM-F, G
Pressure range	MPa(bar)	0.3 ~ 0.6(3 ~ 6)			0.2 ~ 0.6(2 ~ 6)
Fluid		Non-lubricated air			
Temperature range	℃	0 ~ 60			
Storage temperature	℃	-40 ~ +70			
Life time/6bar/20 ℃-1Hz	times	10 billion			50 billion
Port size		Φ4mm fitting			
Mounting		Surface mounting	panel mounting		

Impulse counters and Timers

Impulse counters

- Totalising counters



(PCT-A11)



(PCT-A12)

Order key	Symbol	Counting range	Mounting	Weight (kg)
PCT-A11		0~999 999	Surface mounting	0.08
PCT-A12			Flush mounting	0.06

※ With pneumatic or manual reset.

- Pre-selection counters



(PCP-A11)



(PCP-S11)

PCP-A11		0~99 999	Flush mounting	0.12
PCP-S11				0.11

※ With pneumatic or manual reset.

Timers

- Digital display



Order key	Symbol	Time base	Time range	Weight (kg)
PCM-A11		1 second	1 second ~ 27 hours	0.20
PCM-B11		1 minute	1 minute ~ 69 days	
PCM-E11		2 minute	3 minute ~ 100 minute	

※ With pneumatic or manual reset.

- Calibrated dial

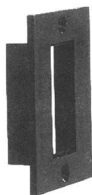


Order key	Symbol	Time base	Time range	Weight (kg)
PCM-F11		1 second	2~30 seconds	0.05
PCM-G11			20~300 seconds	

PC Series

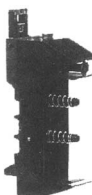
Accessories

• Mounting bezels



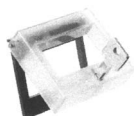
ORDER KEY	Description	Weight (kg)
PXC-ZM6075	For PCM-F11 and PCM-G11 mounting in 60 × 75 mm cutout	0.015
PXC-ZM7272	For PCM-F11 and PCM-G11 mounting in 72 × 72 mm cutout	

• Bezels for omega rail mounting



PCM-ZA35	For (non-reversible) clip-on mounting of PCM-F11 and PCM-G11 on push-in connection subbase	0.020
PCM-ZE35	35 mm omega rail latching device for PXC-ZA35 subbase	0.010

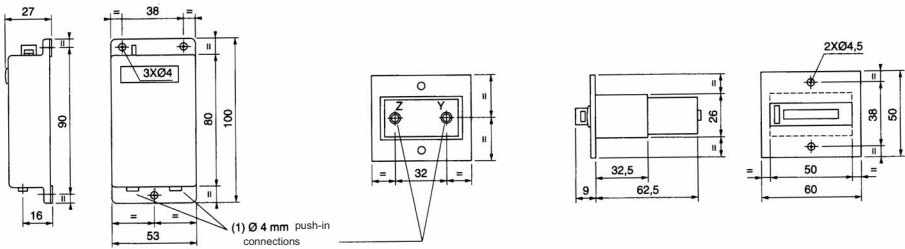
• Lockable cover(Degree of protection IP55)



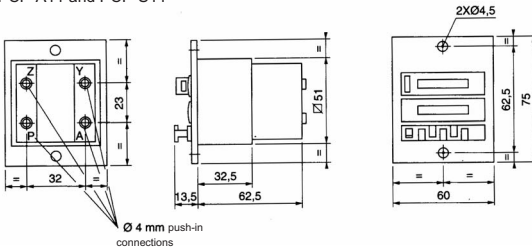
PXC-B1	Transparent cover key lockable for 60 × 75 mm brzel PCP-A11, PCP-S11, PCP-MA11, PCP-MB11	0.025
PXC-A1	For PCT-B11	0.018

Accessories

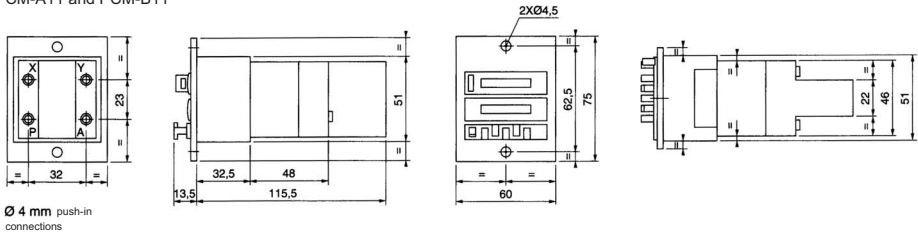
Totalising counters PCT-A11 PCT-B11



Preselection counters PCP-A11 and PCP-S11



Digital display timers PCM-A11 and PCM-B11



Timers with calibrated dial PCM-F11 and PCM-G11

