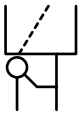
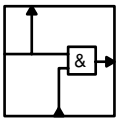
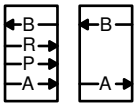
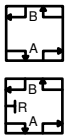
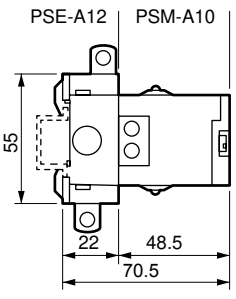
Common specifications

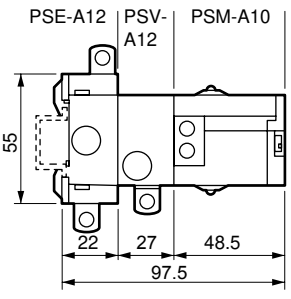
Item	Specifications
Working fluid	Compressed air (no lubrication)
Max. working pressure MPa *1	0.8 (≈120 psi, 8 bar)
Min. working pressure MPa	0.3 (≈44 psi, 3 bar)
Fluid temperature °C	5 (41°F) to 60 (140°F)
Ambient temperature °C *2	0 (32°F) to 60 (140°F) (no freezing)
Effective cross-sectional area mm² *3	2
Port size	ø4
Compatible tube	O.D. ø4.0, I.D. ø2.5, hard nylon tube, soft nylon tube F-1504

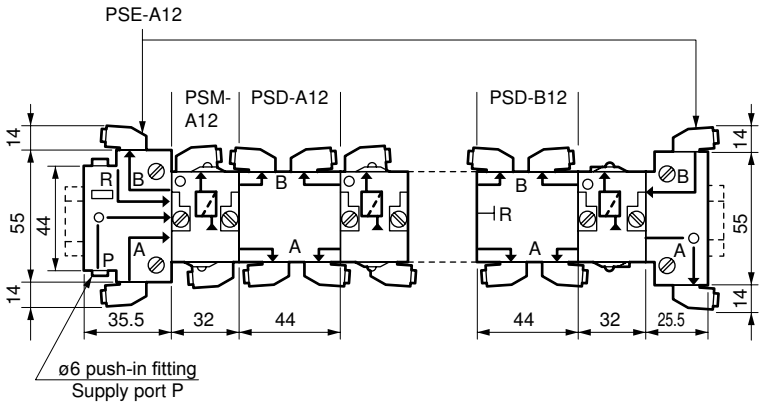
*1: The max. working pressure of the air counter (PCT, PCP) is 0.6 MPa.
*2: The ambient temperature range for the solenoid valve PRS is 0 to +40°C.
*3: The effective cross-sectional area of the limit switch (miniature) is 0.7 mm².

PLC

Appearance	Symbol	Part name	Model No.	Weight (kg)
 ● PSM-A12		PLC element		
		● With manual button	PSM-A12	0.175
		With push-in swivel fitting		
		With indicator		
		Body only	PSM-A10	0.135
		Sub-base only	PSB-A12	0.040
		PLC sub-base V type		
 ● PSV-A12		● With push-in swivel fitting	PSV-A12	0.045
		PLC AND element		
 ● PSL-A12		● With push-in swivel fitting	PSL-A12	0.035
		With indicator		
		PLC I/O block		
 ● PSE-A12  ● PSE-A12		● With push-in swivel fitting	PSE-A12	0.080
		With port P indicator		
		PLC branch block		
 ● PSD-A12  ● PSD-B12		● With push-in swivel fitting	PSD-A12	0.050
		● R type (Port R signal braking)	PSD-B12	0.050

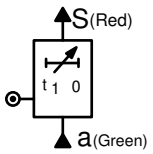
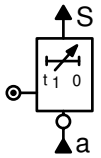
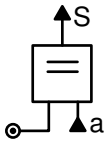
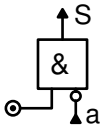
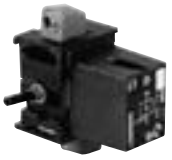
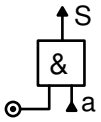
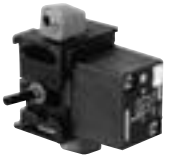
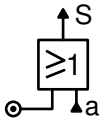
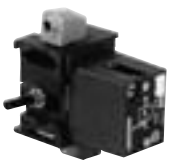
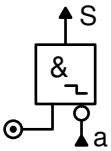






● Note: Use a ø6 tube for the supply port P and ø4 tubes for all other ports.

Relay

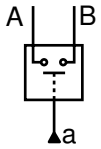
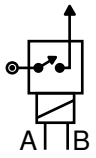
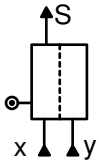
Appearance	Symbol	Part name	Model No.	Weight (kg)
 ● PRT-A12		Timer (on-delay) ● With sub-base push-in swivel fitting		
		● 0.1 to 3 sec	PRT-E12	0.165
		● 0.1 to 30 sec	PRT-A12	0.165
		● 10 to 180 sec	PRT-B12	0.165
		Timer (off-delay)		
		● 0.1 to 3 sec	PRT-F12	0.165
		● 0.1 to 30 sec	PRT-C12	0.165
		● 10 to 180 sec	PRT-D12	0.165
 ● PLJ-C12		YES element		
		● With sub-base push-in swivel fitting With push-in swivel fitting (Operation) Output S is issued when there is signal a.	PLJ-C12	0.065
 ● PLL-C12		NOT element		
		● With sub-base push-in swivel fitting (Operation) Output S is issued when there is no signal a.	PLN-C12	0.065
 ● PLN-C12		AND element		
		● Sub-base push-in swivel fitting	PLL-C12	0.065
 ● PLK-C12		OR element		
		● Sub-base push-in swivel fitting	PLK-C12	0.065
 ● PLN-D12		Threshold element		
		● With sub-base push-in fitting Output S is issued when there is no signal a. Note that signal a does not function until pressure is extremely low.	PLN-D12	0.065

⚠ Cautions for relay

All relay sub-bases are based on PZU-A12. If the sub-base PZU-C12 is required, order the body and sub-base separately.
When ordering only the relay body, change the suffix of the model No. from 12 to 10.
For the sub-base relay P□-□12 other than on-delay timer PRT-A12 and threshold element PLN-D12, the body P□-□10 and sub-base PZU-A12 are shipped in separate containers.

On-delay timer: Output S is issued after signal a is input and the set time has elapsed.
Off-delay timer: Output S is constantly issued. Output S stops when signal a is input and the set time has elapsed.

Relay

Appearance	Symbol	Part name	Model No.	Weight (kg)
● PRE-A12		Pressure switch		
		● With sub-base push-in swivel fitting With manual button Contact capacity (resistance load) 600 V/10 A	PRE-A12	0.130
● PRS-A121$^{F}_{M}$		Solenoid valve		
		● With sub-base push-in swivel fitting With manual button	PRS-A121F(110 VAC) PRS-A121M(220 VAC)	0.165 0.165
● PLM-A12 ● PLM-A10		Memory element		
		● With sub-base push-in swivel fitting ● No sub-base	PLM-A12	0.185
		Output S is issued at signal X (setting) Reset at signal y (resetting).	PLM-A10	0.135

Relay sub-base

Appearance	Symbol	Part name	Model No.	Weight (kg)
● PZU-A12	A type	3 port sub-base		
		● A type	PZU-A12	0.040
● PZU-E12 ● PZU-C12	C type	● C type	PZU-C12	0.045
● PZU-B12	With push-in swivel fitting	4 port sub-base		
		● With push-in swivel fitting	PZU-B12	0.050
	Input block	Input block		
		● Input block	PZU-E12	0.045

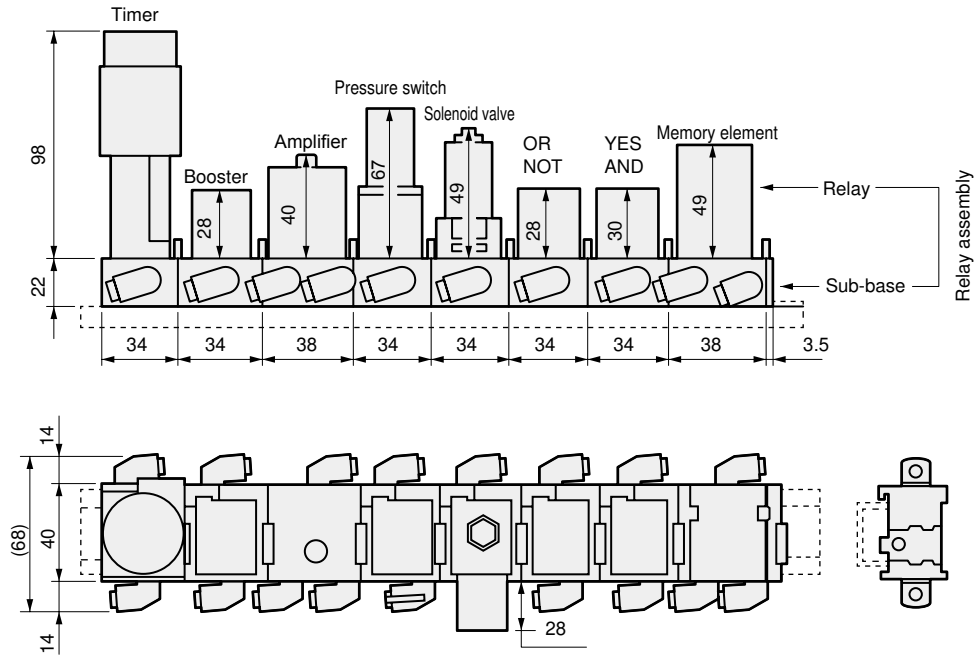
● Applicable to 3 port sub-base
YES element
NOT element
AND element
OR element
Pressure switch
Solenoid valve
Timer
Threshold element
Booster
● Applicable to 4 port sub-base
Memory element
Amplifier

⚠ Cautions for relay

For the sub-base relay P□-□12 other than on-delay timer PRT-A12 and threshold element PLN-D12, the body P□-□10 and sub-base PZU-A12 are shipped in separate containers.

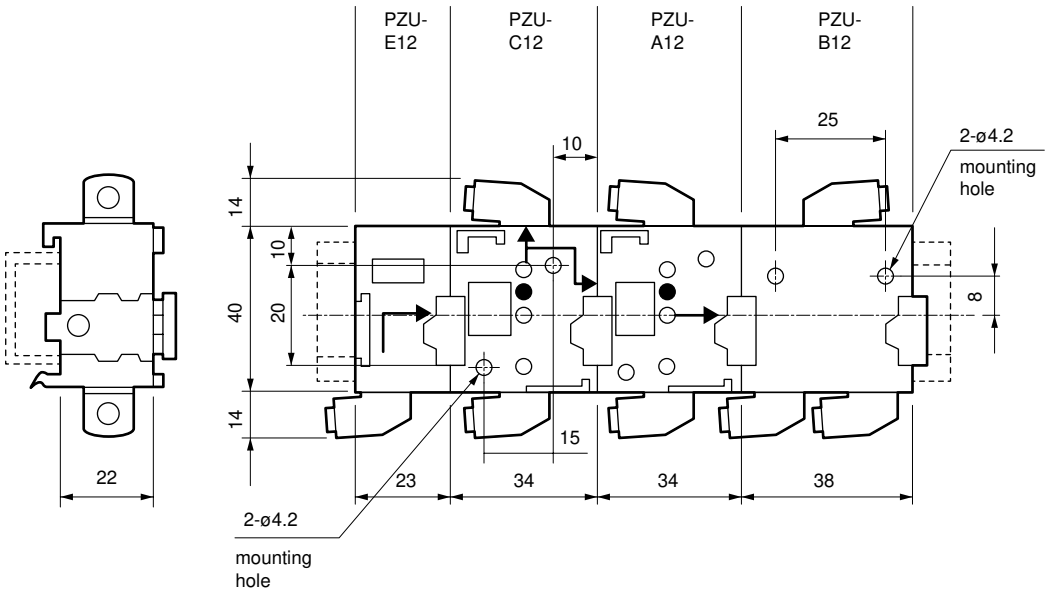
Manifold installation dimensions

Mounting dimensions



● The above drawing is an example of relay elements installed on the sub-base with a push-in swivel fitting.

Sub-base installation dimensions



● Use ø4 tubes for all connection ports.
● Can be attached to the rail in a single touch.
● For mounting rails, use those (35 mm width) that conform to the DIN standard.
(DIN rail for pneumatic valves MN4GA and 4GB Series can be purchased.)