

Common specifications


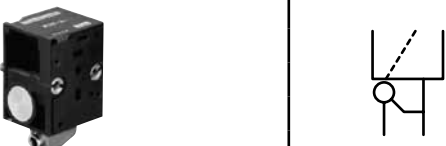
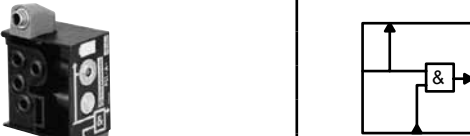


Descriptions	Specifications
Working fluid	Compressed air (no lubrication)
Max. working pressure MPa *1	0.8 (≈120 psi, 8 bar)
Min. working pressure MPa	0.3 (≈44 psi, 3 bar)
Fluid temperature °C	5 (41°F) to 60 (140°F)
Ambient temperature °C *2	0 (32°F) to 60 (140°F) (no freezing)
Effective cross-sectional area mm ² *3	2
Port size	φ4
Compatible tube	O.D. φ4.0, I.D. φ2.5, hard nylon tube, soft nylon tube F-1504

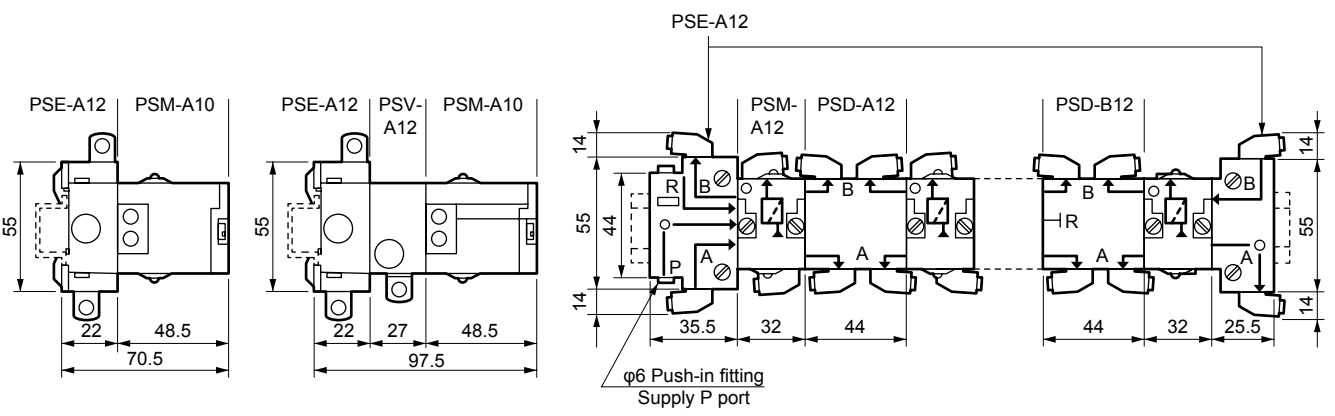
*1: The max. working pressure of the air counter (PCT, PCP) is 0.6 MPa.

*2: The ambient temperature range for the solenoid valve PRS is 0 to +40°C.


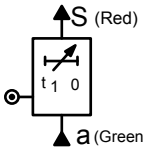
*3: The effective cross-sectional area of the limit switch (miniature) is 0.7 mm².

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
Total air systems (Total Air)
TotAirSys (Gamma)
Ending

		Sequencer		
Appearance	Code	Part name	Model No.	Weight (kg)
4GA/B		PLC element		
M4GA/B		● With manual button	PSM-A12	0.175
MN4GA/B		With push-in swivel fitting		
4GA/B (mastr)		With indicator		
4GD/E	● PSM-A12	Body only	PSM-A10	0.135
M4GD/E		Sub-base only	PSB-A12	0.040
MN4GD/E		PLC sub-base V type		
4GA4/B4		● With push-in swivel fitting	PSV-A12	0.045
MN3E				
MN4E				
W4GA/B2				
W4GB4	● PSV-A12	PLC AND element		
4TB		● With push-in swivel fitting	PSL-A12	0.035
4L2-4/LMF0		With indicator		
MN3S0	● PSL-A12	PLC I/O block		
MN4S0		● With push-in swivel fitting	PSE-A12	0.080
4SA/B0		With P port indicator		
4KA/B		PLC branch block		
4KA/B (mastr)		● With push-in swivel fitting	PSD-A12	0.050
4F	● PSE-A12			
4F (mastr)	● PSE-A12	● R type	PSD-B12	0.050
PV5G GMF		(Port R signal braking)		
PV5 GMF				
PV5S-0		● PSD-A12	● PSD-B12	
3QR				
3QB				
MV3QR				
3MA/B0				
3PA/B				
P/M/B				
NP/NAP/NVP				
4F*0EX				
4F*0E				



● Note: Use a φ6 tube for the supply P port and φ4 tubes for all other ports.

Relay				
Appearance	Code	Part name	Model No.	Weight (kg)
 <p>● PRT-A12</p>		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
		YES element		
		● With sub-base push-in swivel fitting	PLJ-C12	0.065
With push-in swivel fitting				
(Actuation)				
Output S is issued when there is signal a.				
NOT element				
● With sub-base push-in swivel fitting	PLN-C12	0.065		
(Actuation)				
Output S is issued when there is no signal a.				
AND element				
● Sub-base push-in swivel fitting	PLL-C12	0.065		
OR element				
● Sub-base push-in swivel fitting	PLK-C12	0.065		
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		


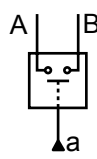

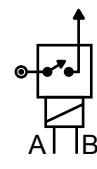

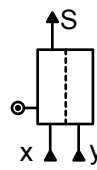
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
Total air systems (Total Air)
TotAirSys (Gamma)
Ending

⚠ Cautions for relay




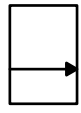
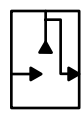
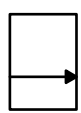
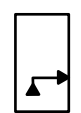
All relay sub-bases are based on PZU-A12. If the sub-base PZU-C12 is required, order the body and sub-base separately. When ordering only the relay body, change the suffix of the model No. from 12 to 10. For the sub-base relay P□□12 other than on-delay timer PRT-A12 and threshold element PLN-D12, the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

4GA/B		Relay			
Appearance	Code	Part name	Model No.	Weight (kg)	
 <p>● PRE-A12</p>		Pressure switch			
		● With sub-base push-in swivel fitting	PRE-A12	0.130	
		With manual button			
		Contact capacity (resistance load) 600 V/10 A			
 <p>● PRS-A121_F_M</p>		Solenoid valve			
		● With sub-base push-in swivel fitting	PRS-A121F(110 VAC)	0.165	
		With manual button	PRS-A121M(220 VAC)	0.165	
 <p>● PLM-A12 ● PLM-A10</p>		Memory element			
		● With sub-base push-in swivel fitting	PLM-A12	0.185	
		● No sub-base			
		Output S is issued at signal X (setting).	PLM-A10	0.135	
		Reset at signal y (resetting).			

4KA/B (mastr)	4F	4F (mastr)	PV5G GMF	PV5 GMF
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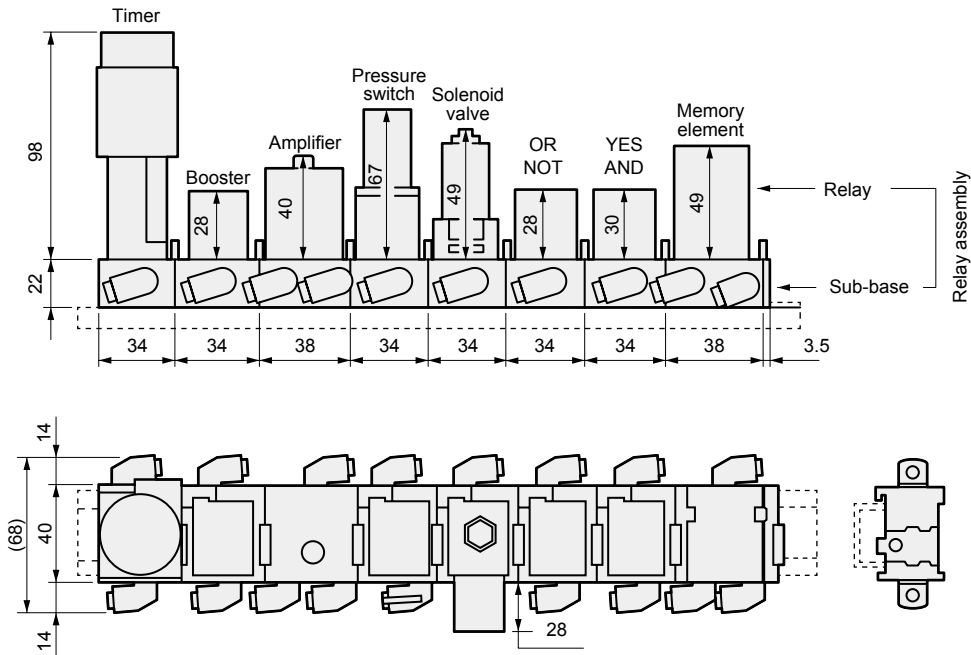
Relay sub-base		Appearance	Code	Part name	Model No.	Weight (kg)		
 <p>● PZU-A12</p>  <p>● PZU-E12</p>  <p>● PZU-C12</p> <p>● PZU-B12</p> <p>● Applicable to 3 port sub-base YES element NOT element AND element OR element Pressure switch Solenoid valve Timer Threshold element Booster</p> <p>● Applicable to 4 port sub-base Memory element Amplifier</p>	A type		3 port sub-base					
	● A type		PZU-A12	0.040				
			● C type	PZU-C12	0.045			
			C type		4 port sub-base			
			● With push-in swivel fitting		PZU-B12	0.050		
			With push-in swivel fitting					
			Input block			Input block		
			● Input block	PZU-E12		0.045		

⚠ 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.

Total air systems (Total Air)
TotAirSys (Gamma)
Ending

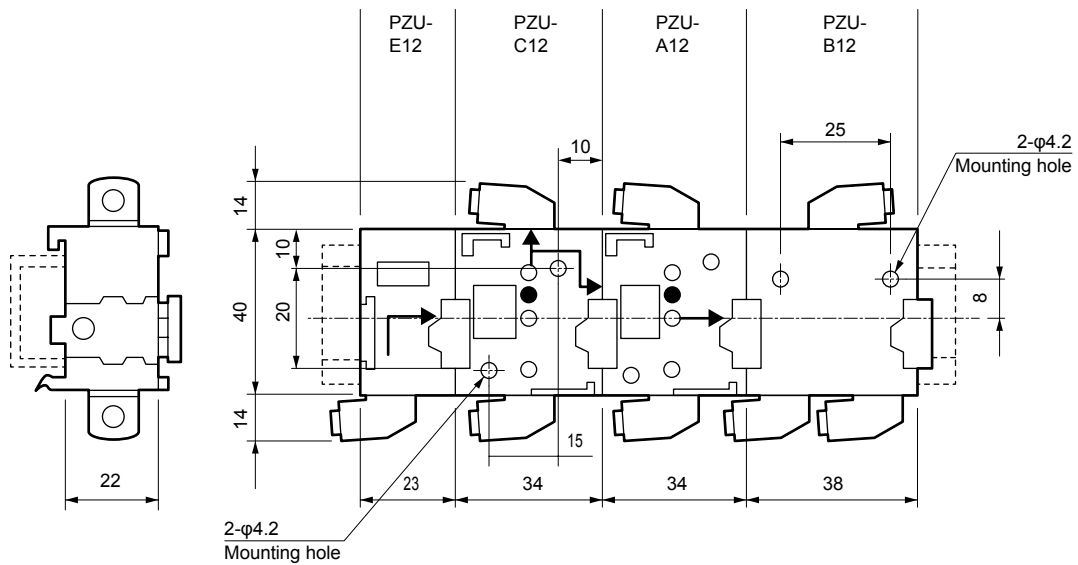
Manifold installation dimensions

Mounting dimensions



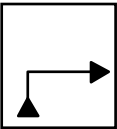
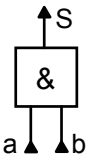
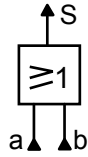
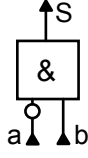
● The above drawing is an example of relay elements installed on the sub-base with a push-in swivel fitting.

Sub-base installation dimensions

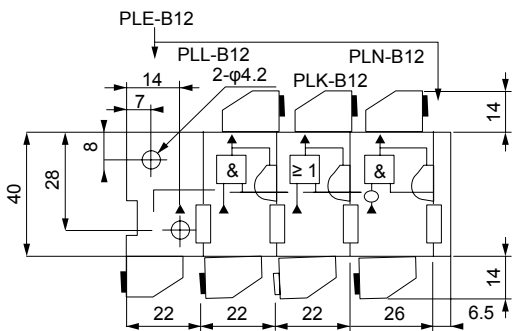


- Use φ4 tubes for all connection ports.
- Can be attached to the rail in a single touch.
- For mounting rails, use those (35 mm width) that conform to the DIN standard. (DIN rail for pneumatic valves MN4GA and 4GB Series can be purchased.)

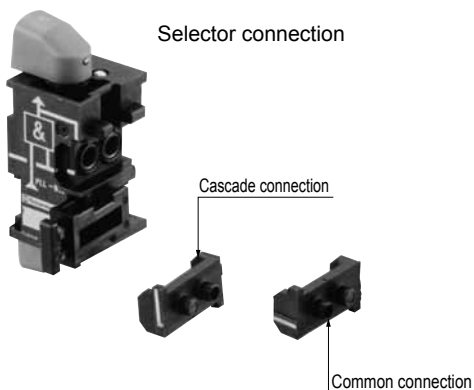
4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
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TotAirSys (Gamma)
Ending

4GA/B		Integrated (logic element)		
Appearance	Code	Part name	Model No.	Weight (kg)
M4GA/B		Side block		
MN4GA/B		● With push-in swivel fitting	PLE-B12	0.075
4GA/B (mastr)				
4GD/E				
M4GD/E		AND element		
MN4GD/E		● With push-in swivel fitting	PLL-B12	0.080
4GA4/B4		(Operation) Output S is issued when both signals a and b are input.		
MN3E MN4E				
W4GA/B2		OR element		
W4GB4		● With push-in swivel fitting	PLK-B12	0.080
4TB		(Operation) Output S is issued when signal a or b, or both are input.		
4L2-4/ LMF0				
MN3S0 MN4S0		NOT element		
4SA/B0		● With push-in swivel fitting	PLN-B12	0.080
4KA/B		(Operation) Output S is issued when signal b is input and signal a is not.		
4KA/B (mastr)				
4F				
4F (mastr)				
PV5G GMF				
PV5 GMF	● PLN-B12			

Mounting dimensions



● Use φ4 tubes for all connection ports.



The integrated element is connected through a selector.

The following two methods are used.

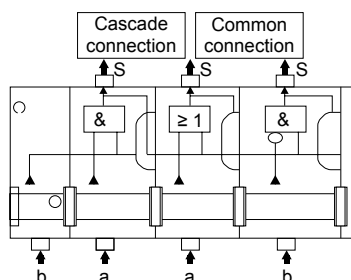
- 1) Cascade line connection
- 2) COM line connection


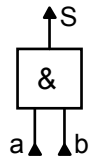

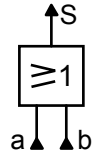

Using the selector

The integrated element is connected through a selector.

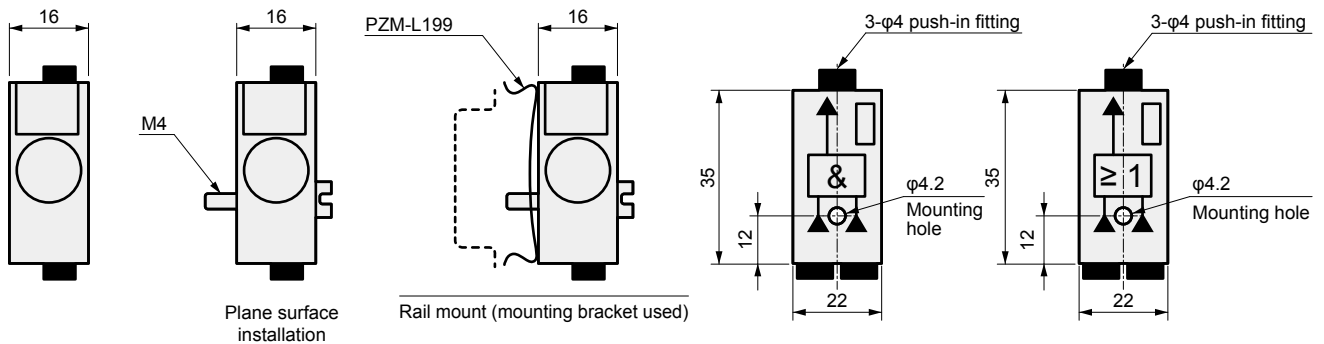
The following two methods are used.

1. Cascade connection
When the element selector is set in a cascade state, it is internally connected to inside board b. The circuit is called a cascade circuit when all elements are set in a cascade state.
2. Common connection
When the element selector is set in a common connection state, each element's inside board b is connected straight. The circuit is called a common input circuit when all elements are connected in a common state.



Line type (logic element)				
Appearance	Code	Part name	Model No.	Weight (kg)
 ● PLL-A11		AND element		
		● With push-in fitting	PLL-A11	0.065
 ● PLK-A11		OR element		
		● With push-in fitting	PLK-A11	0.065
 ● PZM-L199		Mounting bracket (including mounting screws)		
		● Used for rail installation.	PZM-L199	0.015

Mounting dimensions



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
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4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/
LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/
NVP
4F*0EX
4F*0E
HMV
HSV
2QV
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Total air systems
(Total Air)
TotAirSys
(Gamma)
Ending

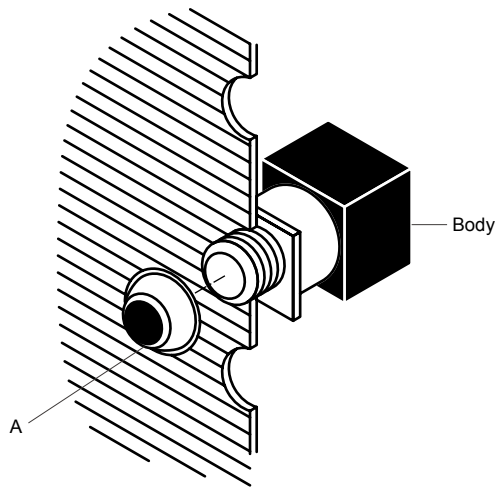
Air lamp



● PXV-M1 □

Appearance	Type of color	Model No.	Weight (kg)
	Air lamp		
	● Green with push-in fitting	PXV-M131	0.085
	● Orange with push-in fitting	PXV-M141	0.085
	● Yellow with push-in fitting	PXV-M151	0.085

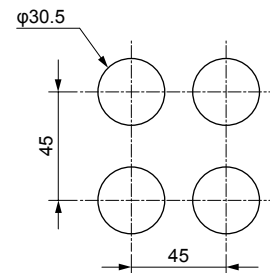
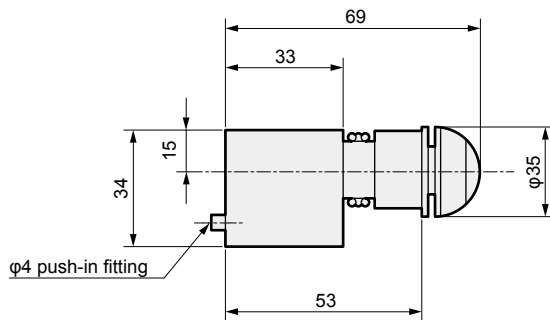
Installation explanation



When installing on a panel, turn lens (A) to the left to remove it. Insert the body from the back of the panel, then turn lens (A) to the right to fix it in place.


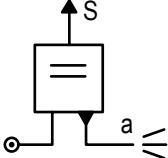

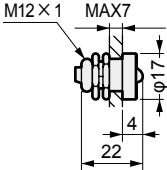

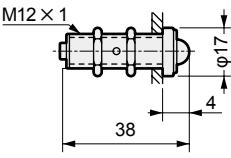

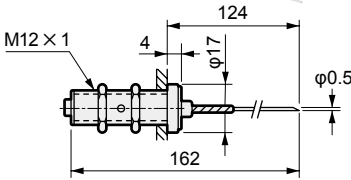

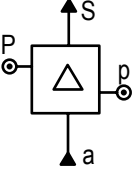

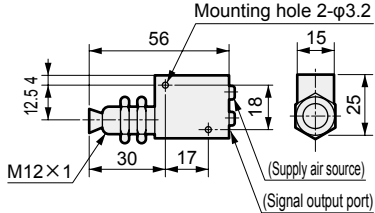
* Colors shown above are used when supplying air.

Mounting dimensions



(Mounting hole plate thickness: t1.5 to 6)

Element and sensor

Appearance	Code	Part name	Model No.	Weight (kg)
 <p>● PRF-A12</p>		Booster		
		<ul style="list-style-type: none"> ● With sub-base push-in swivel fitting Booster signal a is connected to the limit sensor on the machine. Booster output S is issued by closing the bleed hole on the end of the limit sensor.	PRF-A12	0.070
 <p>● PXF-A111</p> 		Limit sensor touch		
		<ul style="list-style-type: none"> ● Push-in fitting 	PXF-A111	0.030
 <p>● PXF-A121</p> 		Limit sensor ball roller		
		<ul style="list-style-type: none"> ● Push-in fitting 	PXF-A121	0.035
 <p>● PXF-A131</p> 		Limit sensor wire		
		<ul style="list-style-type: none"> ● Push-in fitting 	PXF-A131	0.035
 <p>● PRD-A12</p>		Amplifier		
		<ul style="list-style-type: none"> ● With sub-base push-in swivel fitting ● With manual button Fine pressure signal a from the proximity sensor, etc., is amplified to the supply pressure to issue output S.	PRD-A12	0.175
 <p>● PXD-A111</p> 		Proximity sensor		
		<ul style="list-style-type: none"> ● Push-in fitting 	PXD-A111	0.060

⚠ Element and sensor cautions The body PRF-A10 and sub-base PZU-A12 are shipped in separate containers for the booster PRF-A12. The body PRD-A10 and sub-base PZU-B12 are shipped in separate containers for the amplifier PRD-A12.

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
Total air systems (Total Air)
TotAirSys (Gamma)
Ending

Pushbutton switch/switch body (separated)

Outline drawing	Code	Part name	Model No.	Weight (kg)
<p>● Switch body with mounting base</p>		Discrete switch body NC (with switch head installation base)		
		● Flow rate 60 ℓ/min (ANR) (At pressure 0.6 MPa)	PXB-B	3111B
<p>● Switch body with mounting base</p>		Discrete switch body NO (with switch head installation base)		
		● Flow rate 60 ℓ/min (ANR) (At pressure 0.6 MPa)	PXB-B	3121B
<p>● Switch body only</p>		Only switch body NC		
		● Flow rate 60 ℓ/min (ANR) (At pressure 0.6 MPa)	PXB-B	3911
<p>● Switch body only</p>		Only switch body NO		
		● Flow rate 60 ℓ/min (ANR) (At pressure 0.6 MPa)	PXB-B	3921

⚠ Safety Precautions

◆ Installing on and removing from the panel

Mounting

- ① With the arrow facing up, push in the switch head from the front of the panel.
- ② Push in the switch body, aligning the arrow on it with the arrow on the switch head.
- ③ Tighten the fixing screw on the bottom. (Tightening torque: Max. 0.8 N·m)

Removal

- ④ Loosen the fixing screw on the bottom.
- ⑤ Lift up the switch body hook with a flathead screwdriver.
- ⑥ Pull out the entire switch body.

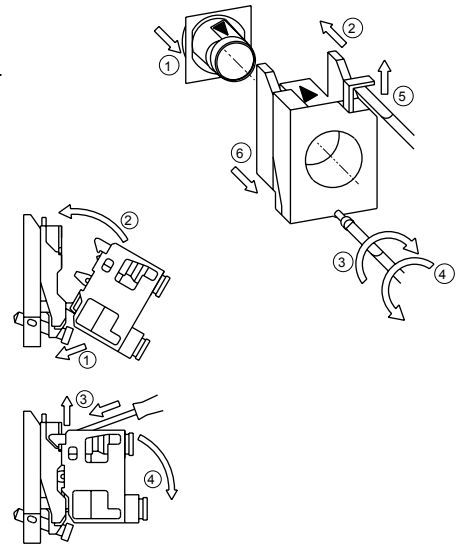
◆ Installing and removing the switch body on/from the installation base

Mounting

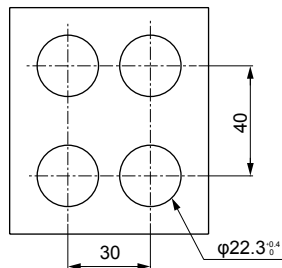
- ① Align the protrusion on the bottom of the switch body with the groove on the bottom of the mounting base.
- ② Push in the top part until it clicks.

Removal

- ③ Lift up the bracket on the top of the switch body with a flathead screwdriver.
- ④ Remove the switch body.



- ◆ Min. panel cut dimension
Panel thickness: 1 to 6 mm

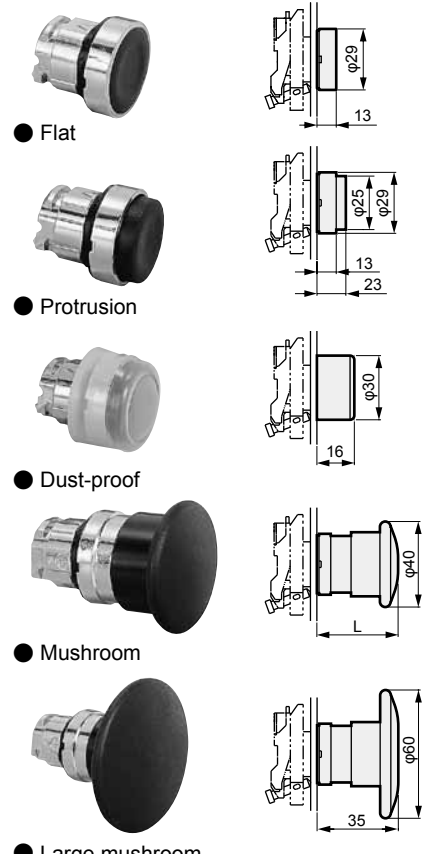


Model No. of push button Model No. of only switch body: PXB-B *1
 Model No. of only switch head: ZB4-B *2
 Model No. of switch combination: PXB-B *1 *2

PXB-B *1 *2

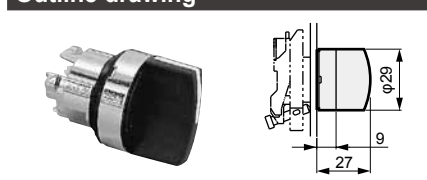
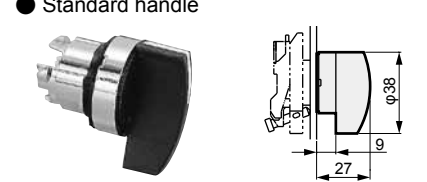
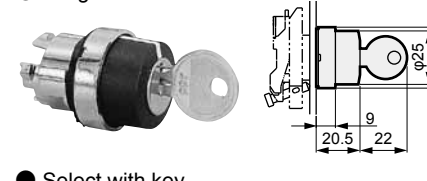
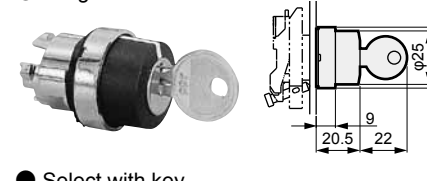
Switch head (separated)

◇ Push button head

Outline drawing	Type	Actuation	Color	Model No.	Weight (kg)
 <ul style="list-style-type: none"> ● Flat ● Protrusion ● Dust-proof ● Mushroom ● Large mushroom 	Flat shape	Momentary (Automatic return)	Black	ZB4-B A2	0.029
			Green	ZB4-B A3	0.029
			Red	ZB4-B A4	0.029
			Yellow	ZB4-B A5	0.029
	Extension	Momentary (Automatic return)	Black	ZB4-B L2	0.030
			Green	ZB4-B L3	0.030
			Red	ZB4-B L4	0.030
			Yellow	ZB4-B L5	0.030
	Dust-proof	Momentary (Automatic return)	Black	ZB4-B P2	0.031
	Mushroom (Head diameter $\phi 40$ mm)	Momentary (Automatic return)	Black	ZB4-B C2	0.072
			Green	ZB4-B C3	0.072
Red			ZB4-B C4	0.072	
Yellow			ZB4-B C5	0.072	
Latch, push/pull		Red	ZB4-B T84	0.078	
Latch, turn/release	Red	ZB4-B S844	0.073		
Large mushroom (Head diameter $\phi 60$ mm)	Momentary (Automatic return)	Black	ZB4-B R2	0.093	

Model No.	L
ZB4-BC□	32
ZB4-BT84	38.5
ZB4-BS844	39.5



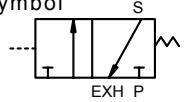




◇ Selector head

Outline drawing	Type	Actuation	Model No.	Weight (kg)
	Standard handle, black	2-position self-hold	ZB4-B D2	0.044
		3-position self-hold	ZB4-B D3	0.044
	Long handle, black	2-position self-hold	ZB4-B J2	0.044
		3-position self-hold	ZB4-B J3	0.044
	Select type with key	3-position automatic return	ZB4-B J5	0.044
		3-position left side automatic return right side self-hold	ZB4-B J7	0.044
	Select type with key	2-position self-hold	ZB4-B G2	0.069
		2-position self-hold	ZB4-B G4	0.069

 indicates the key release position.



Model No. of switch body and switch head combination
 [Example] Combination of discrete switch body NC and mushroom redhead Model No.: PXB-B3111BC4.

4GA/B
 M4GA/B
 MN4GA/B
 4GA/B (mastr)
 4GD/E
 M4GD/E
 MN4GD/E
 4GA4/B4
 MN3E
 MN4E
 W4GA/B2
 W4GB4
 4TB
 4L2-4/
 LMF0
 MN3S0
 MN4S0
 4SA/B0
 4KA/B
 4KA/B (mastr)
 4F
 4F (mastr)
 PV5G
 GMF
 PV5
 GMF
 PV5S-0
 3QR
 3QB
 MV3QR
 3MA/B0
 3PA/B
 P/M/B
 NP/NAP/
 NVP
 4F*0EX
 4F*0E
 HMV
 HSV
 2QV
 3QV
 SKH
 PCD
 Silencer
 Total air systems (Total Air)
 TotAirSys (Gamma)
 Ending

Miniature limit switch				
Appearance	Code	Part name	Model No.	Weight (kg)
4GA/B M4GA/B MN4GA/B 4GA/B (mastr) 4GD/E M4GD/E MN4GD/E ● PXC-M111 		Plunger push-in fitting		
		Direct acting 3-port valve NC EXH is released into the atmosphere. JIS symbol	PXC-M111	0.030
				
4GA4/B4 MN3E MN4E W4GA/B2 W4GB4 ● PXC-M121 		Roller lever push-in fitting		
			PXC-M121	0.040
4TB 4L2-4/ LMF0 MN3S0 MN4S0 4SA/B0 4KA/B ● PXC-M521 		Roller lever		
			PXC-M521	0.060








4KA/B (mastr)				
4F				
4F (mastr)				

Attachment for PXC-M111


Appearance	Code	Part name	Model No.	Weight (kg)
PV5G GMF PV5 GMF PV5S-0 3QR 3QB MV3QR 3MA/B0 3PA/B ● PXC-Z12 		One way roller lever		
			PXC-Z12	0.008
P/M/B NP/NAP/ NVP 4F*0EX 4F*0E ● PXC-Z11 		Roller lever		
			PXC-Z11	0.008

2QV 3QV				
SKH				
PCD				
Silencer				
Total air systems (Total Air)				
TotAirSys (Gamma)				
Ending				

Compact limit switch

Appearance	Code	Part name	Model No.	Weight (kg)
 ● PXC-M601A110  ● PXC-M601A102  ● PXC-M601A103	  	Plunger		
		Direct acting 3-port valve NC	PXC-M601A110	0.150
		JIS symbol 		
		Roller plunger	PXC-M601A102	0.160
		Cross roller plunger	PXC-M601A103	0.160

Attachment

Appearance	Code	Part name	Model No.	Weight (kg)
 ● XCM-Z24		One way roller lever		
			XCM-Z24	0.080

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
Total air systems (Total Air)
TotAirSys (Gamma)
Ending

Compact limit switch specifications

Specifications

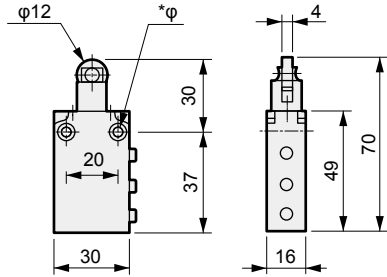
Descriptions	PXC-M601A110	PXC-M601A102	PXC-M601A103	PXC-M601A110 +XCM-Z24	PXC-M111	PXC-M121	PXC-M521
Max. operating speed	0.5 m/s	0.1 m/s	0.1 m/s	0.5 m/s	0.5 m/s	1.0 m/s	1.0 m/s
Operating distance: A *1	1.7 mm	1.7 mm	1.7 mm	9.4 mm(A)	0.9 mm	2.0 mm	2.2 mm
Max. distance: B	5.0 mm	5.0 mm	5.0 mm	-	1.4 mm	3.2 mm	5.8 mm
Return distance	0.3 mm	0.2 mm	0.2 mm	1.2 mm(A)	0.15 mm	0.3 mm	0.5 mm
Min. operating force *1	24 N	23 N	23 N	19 N	11 N	4.5 N	7 N

*1: Value at supply pressure of 0.6 MPa.

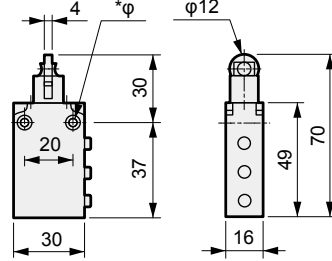
Compact limit switch

Dimensions

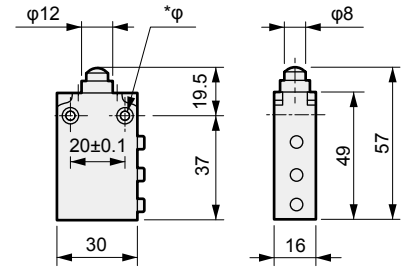
● PXC-M601A102



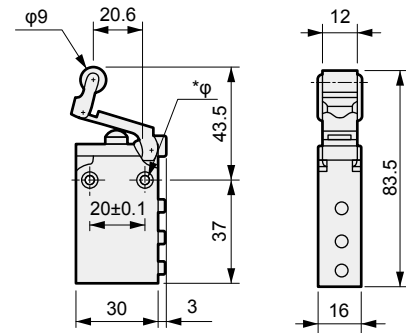
● PXC-M601A103



● PXC-M601A110

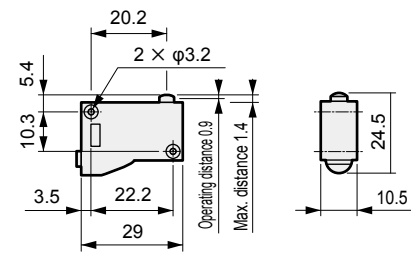


● PXC-M601A110+
XCM-Z24

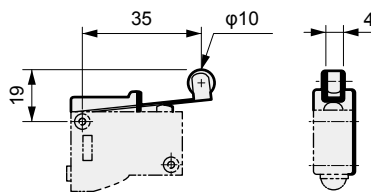


* φ hole detailed dimensions
2-φ4.3 through
2-spot face diameter φ8.2
spot face depth 4

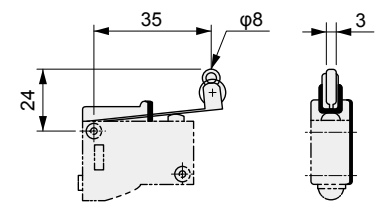
● PXC-M111



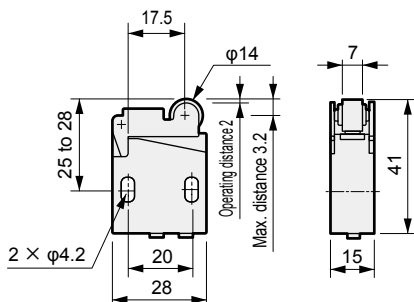
● PXC-Z11



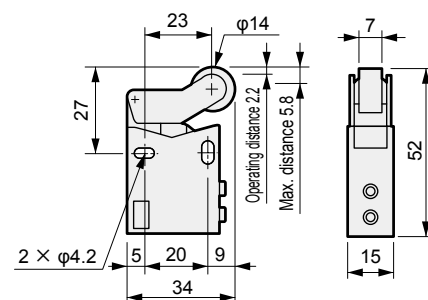
● PXC-Z12



● PXC-M121




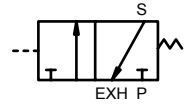


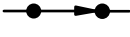






● PXC-M521



4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
4TB
4L2-4/ LMF0
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G GMF
PV5 GMF
PV5S-0
3QR 3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/ NVP
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
PCD
Silencer
Total air systems (Total Air)
TotAirSys (Gamma)
Ending








Limit switch

Appearance	Part name	Model No.	Weight (kg)	Appearance	Part name	Model No.	Weight (kg)		
 <p>● PXC-K211</p>	NC	PXC-K 211	0.32	 <p>● ZCK-D01</p>	Plunger	ZCK-D 01	0.100		
	<p>● Push-in fitting pilot operated 3-port valve NC.</p>								
									
									
 <p>● PXC-K221</p>	NO	PXC-K 221	0.32	 <p>● ZCK-D02</p>	Roller	ZCK-D 02	0.140		
	<p>● Push-in fitting pilot operated 3-port valve NO.</p>								
									
									
 <p>● ZCK-D21 D23</p>				 <p>● ZCK-D06</p>	Roller lever	Resin	ZCK-D 21	0.150	
							Steel	ZCK-D 23	0.160
							Wire	ZCK-D 06	0.100
							* Coil spring	ZCK-D 08	0.035
				 <p>● ZCK-D08</p>					

How to order (single unit)

- Model No. of switch body only PXC-K
- Model No. of head only ZCK-D
- Model No. of lever only ZCK-Y

Rotary head lever actuator

Appearance	Part name	Model No.	Weight (kg)	Appearance	Part name	Model No.	Weight (kg)		
 <p>● ZCK-D05 Note: Three output methods can be used by changing the position of the inner cam. Refer to page 1560 for details.</p> 	Rotary			 <p>● ZCK-Y31</p>  <p>● ZCK-Y41</p>  <p>● ZCK-Y55</p>  <p>● ZCK-Y81</p>  <p>● ZCK-Y91</p>	Roller lever				
		ZCK-D	05		0.060	Resin roller	ZCK-Y	31	0.020
						Steel roller	ZCK-Y	33	0.030
						Bearing roller	ZCK-Y	34	0.030
				Adjusting					
				Resin roller	ZCK-Y	41	0.030		
				Rod lever					
				Round rod	ZCK-Y	55	0.025		
				Square rod	ZCK-Y	54	0.025		
				Round rod (φ3 glass fiber)					
				Square rod (□ 3 steel)					
				Spring					
					ZCK-Y	81	0.010		
				Spring rod					
					ZCK-Y	91	0.030		

4GA/B
M4GA/B
MN4GA/B
4GA/B (mastr)
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E
MN4E
W4GA/B2
W4GB4
4TB
4L2-4/LMF0
MN3S0
MN4S0
4SA/B0
4KA/B
4KA/B (mastr)
4F
4F (mastr)
PV5G
GMF
PV5
GMF
PV5S-0
3QR
3QB
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP/NVP
4F*0EX
4F*0E
HMV
HSV
2QV
3QV
SKH
PCD
Silencer
Total air systems (Total Air)
TotAirSys (Gamma)
Ending

How to order combination

- Model No. of plunger and switch combination
- Model No. of rotary and switch combination
- Model No. of lever/rotary and switch combination



[Example] Switch body, head, lever actuator combination, NC, rotary, and resin roller

PXC-K211 05 31 = PXC-K2110531


* Custom order product.

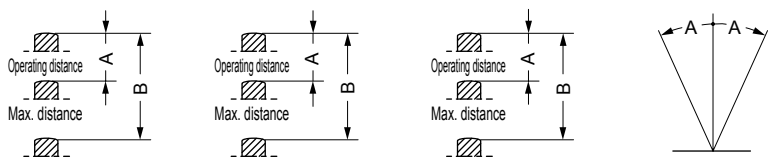
Limit switch

Specification PXC-K²₁

Appearance	Descriptions	ZCK-D01	ZCK-D02	ZCK-D21 ZCK-D23	ZCK-D06 ZCK-D08
● ZCK-D01 	Max. operating speed	0.5 m/S	0.5 m/S	1.5 m/S	1 m/S
	Operating distance: A *1	0.5 mm	0.5 mm	0.5 mm	-
	Max. distance: B	2.2 mm	2.2 mm	2.6 mm	-
	Return distance	0.2 mm	0.2 mm	0.2 mm	-
● ZCK-D02 	A operating angle *1	-	-	-	35°
	Return angle	-	-	-	12°
	Min. operating force *1	16 N	20 N	15 N	-
	Min. operating torque *1	-	-	-	0.12 N.m

*1: Value at supply pressure of 0.6 MPa.

Appearance	Descriptions	ZCK-D01	ZCK-D02	ZCK-D21 ZCK-D23	ZCK-D06 ZCK-D08
● ZCK-D06 	Operating distance	A	A	A	-
	Max. distance	B	B	B	-
	A operating angle *1	-	-	-	35°
	Return angle	-	-	-	12°

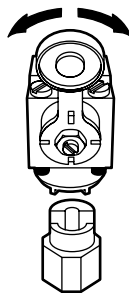


Rotary head ZCK-D05

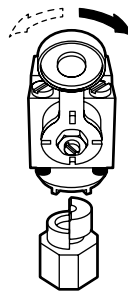
A operating angle *1	31°
B-Max. angle	80°
Return angle	3°
Min. operating torque *1	0.21 N.m

*1: Value at supply pressure of 0.6 MPa.

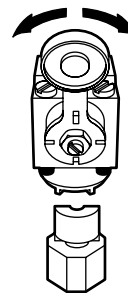
● Retrieving the output signal
Output signal retrieval is altered by changing the position of the internal cam as shown below.



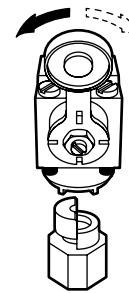
Output signal: Left-right



For right



Left-right

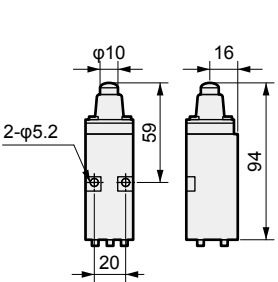


For left

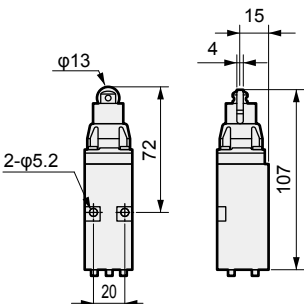
Limit switch

Dimensions

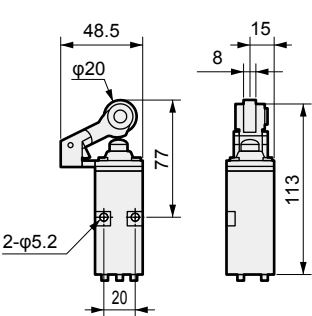
● PXC-K21101, PXC-K22101



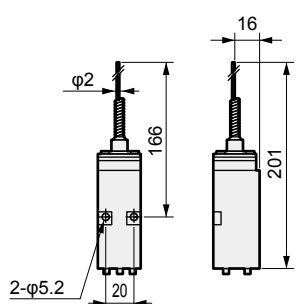
● PXC-K21102, PXC-K22102



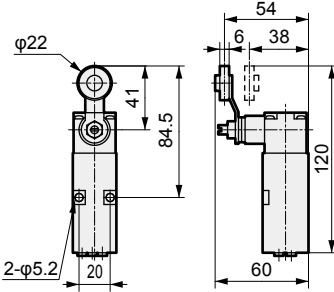
● PXC-K21121, PXC-K22121
K21123 K22123



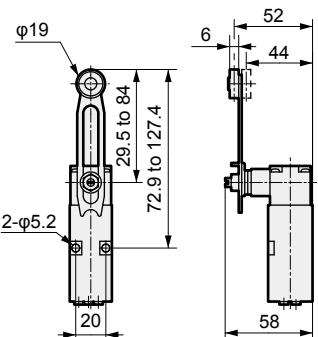
● PXC-K21106, PXC-K22106



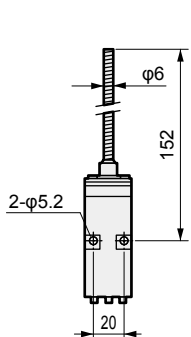
● PXC-K2110531, PXC-K2210531



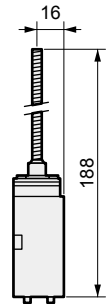
● PXC-K2110541, PXC-K2210541



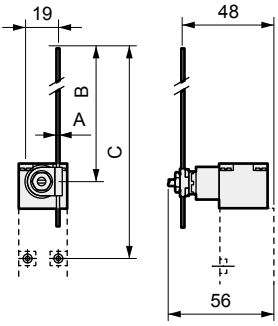
● PXC-K21108



● PXC-K22108

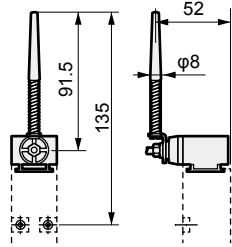


● ZCK-Y54, ZCK-Y55

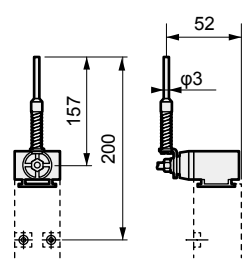


	ZCK-Y55	ZCK-Y54
A	φ3	□3
B	11 to 115	11 to 115
C	53 to 158	53 to 158

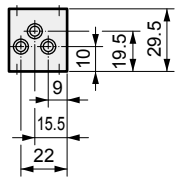
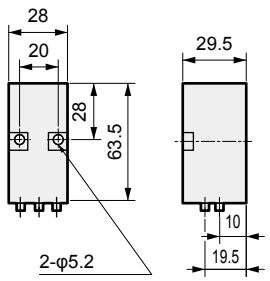
● ZCK-Y81



● ZCK-Y91



● PXC-K211, PXC-K221



- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/
LMF0
- MN3S0
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
GMF
- PV5
GMF
- PV5S-0
- 3QR
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/
NVP
- 4F*0EX
- 4F*0E
- HMV
HSV
- 2QV
3QV
- SKH
- PCD
- Silencer
- Total air systems
(Total Air)
- TotAirSys
(Gamma)
- Ending

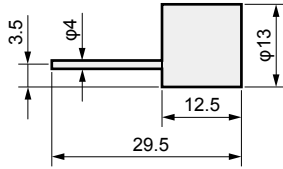
Accessory

Appearance



● PXC-X14

● Applications
Use for PLC, relay, integrated, and line type logical elements, and for terminal blocks.



Silencer

Model No.	Weight (kg)
PXC-X14	0.040

- 4GA/B
- M4GA/B
- MN4GA/B
- 4GA/B (mastr)
- 4GD/E
- M4GD/E
- MN4GD/E
- 4GA4/B4
- MN3E
MN4E
- W4GA/B2
- W4GB4
- 4TB
- 4L2-4/
LMF0
- MN3S0
MN4S0
- 4SA/B0
- 4KA/B
- 4KA/B (mastr)
- 4F
- 4F (mastr)
- PV5G
GMF
- PV5
GMF
- PV5S-0
- 3QR
3QB
- MV3QR
- 3MA/B0
- 3PA/B
- P/M/B
- NP/NAP/
NVP
- 4F*0EX
- 4F*0E
- HMV
HSV
- 2QV
3QV
- SKH
- PCD
- Silencer
- Total air systems
(Total Air)
- TotAirSys
(Gamma)
- Ending