

Pressure Switches (Piston Actuator)

SZ□□□P、SZ□□□PM(SPDT) / SZ□□□PW(DPDT)



Features

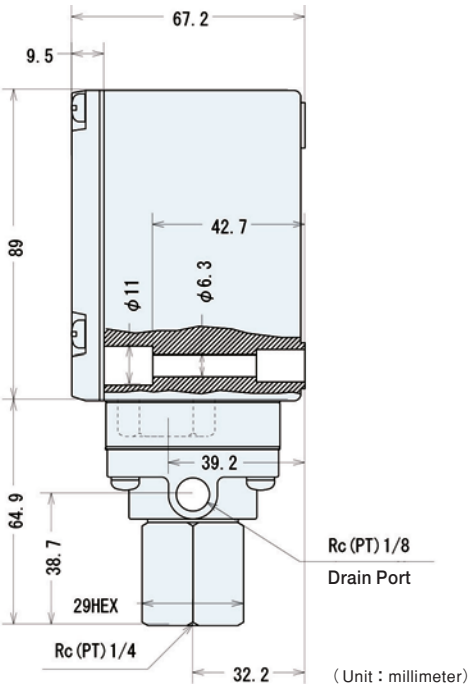
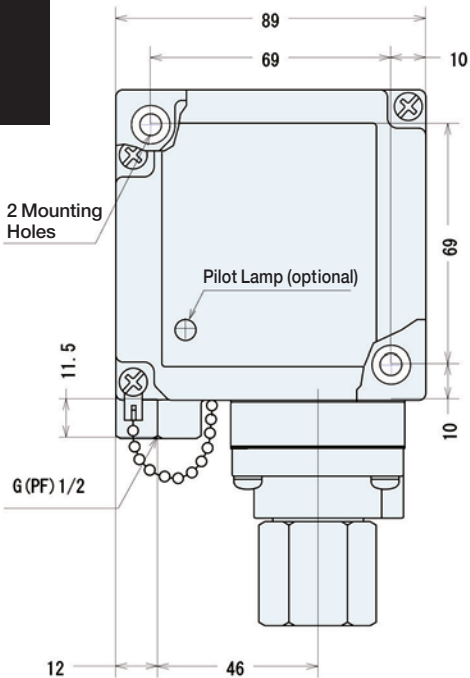
- Viton is adopted as a standard sealing material. That makes the piston actuated pressure switches can be used for not only oil but also for other medium that has lubricity to a certain degree (soluble oil). In addition, Ethylene Propylene Seal can be also selectable.
- We will prepare SZ□□□PM for which the medium besides the oil pressure can also use the high-pressure steam and water by the specific technology.
- The piston actuated pressure switches are applicable to pressure from 0.1 to 63.5 MPa ranges.
- The micro switch is selectable from a SPDT standard rating type, a micro-load type (for 24VDC), and sealed type (environment resistance). In addition, a DPDT contact micro switch is also available (SZ□□□PM is only C contact)
* Refer to page 56 for details.
- CCC, UL and CSA approved.
(Please note that UL or CSA approved switches are not available for the device equipped with a SPDT micro-load contact, a sealed contact, a DPDT contact and SZ□□□PM. CCC certified switches is not available for the with pilot lamps.)

Type of Micro Switches	Models	Range MIN. : Minimum setting point of falling pressure. MAX. : Maximum setting point of rising pressure. MPa (kgf/cm ²) MIN. - MAX.	Differential (Dead Band) * Add to the Range Value MPa (kgf/cm ²) MIN. - MAX.	Rated Pressure Maximum Pressure in Continuous use MPa (kgf/cm ²)	Proof Pressure MPa (kgf/cm ²)
SPDT	SZ032P	0.1-3.2 (1-32)	0.18-0.6 (1.8-6)	3.2 (32)	10 (100)
	SZ070P	0.2-7 (2-70)	0.28-1.3 (2.8-13)	7 (70)	35 (350)
	SZ210P	0.5-20.5 (5-205)	0.7-3.8 (7-38)	20.5 (205)	70 (700)
	SZ400P	1-40 (10-400)	1.5-7.5 (15-75)	40 (400)	70 (700)
	SZ635P	2-63.5 (20-635)	2.5-12 (25-120)	63.5 (635)	120 (1200)
DPDT	SZ032PW	0.1-3.2 (1-32)	0.22-0.6 (2.2-6)	3.2 (32)	10 (100)
	SZ070PW	0.2-7 (2-70)	0.34-1.3 (3.4-13)	7 (70)	35 (350)
	SZ210PW	0.5-20.5 (5-205)	0.85-3.8 (8.5-38)	20.5 (205)	70 (700)
	SZ400PW	1-40 (10-400)	1.8-7.5 (18-75)	40 (400)	70 (700)
	SZ635PW	2-63.5 (20-635)	3-12 (30-120)	63.5 (635)	120 (1200)
SPDT * (C contact only)	SZ350PM	1-35 (10-350)	1.5-2 (15-20)	40 (400)	70 (700)
	SZ500PM	2-50 (20-500)	2-2.5 (20-25)	63 (630)	100 (1000)

- Fixed differential (dead band) types are available for each model equipped with SPDT or DPDT micro switch.
 - The differential (dead band) of the fixed differential (dead band) type is less than or equal to the minimum value of the adjustable differential (dead band) models.
 - The minimum differential (dead band) indicates a value at approximately in-between of the range. Because of the sealed piston, the differential (dead band) tends to be rather smaller at lower pressure and rather wider at higher pressure than the represented value (* refer to the list on the next page).
 - A PT 1/8 drain port is equipped on the side of the body so that the pressure switch is used with piping for drains beforehand, in an environment that will not allow even a small amount of seepage. The drain port must be opened to the atmospheric pressure.
 - The set point must be within the range.
- * Only SPDT (C contact) is available. In addition, the differential (dead band) is not adjustable. It is fixed within the range of indicated value.

**SZ032P
SZ070P
SZ210P
SZ400P
SZ635P**

Mass : approx. 1.03kg



* An example of the minimum differential (dead band) is shown on the right as a guide.

Models	Minimum Differential (Dead Band) MPa (kgf/cm ²)
SZ032P (SPDT)	0.25 (2.5)
SZ070P (SPDT)	0.3 (3)
SZ210P (SPDT)	1.2 (12)
SZ400P (SPDT)	1.8 (18)
SZ635P (SPDT)	3 (30)

**SZ350PM
SZ500PM**

Mass : approx. 1.03kg

