

ACT

ACT ELECTRIC
INDUSTRY CO., LTD.

Pressure Switch CE Type

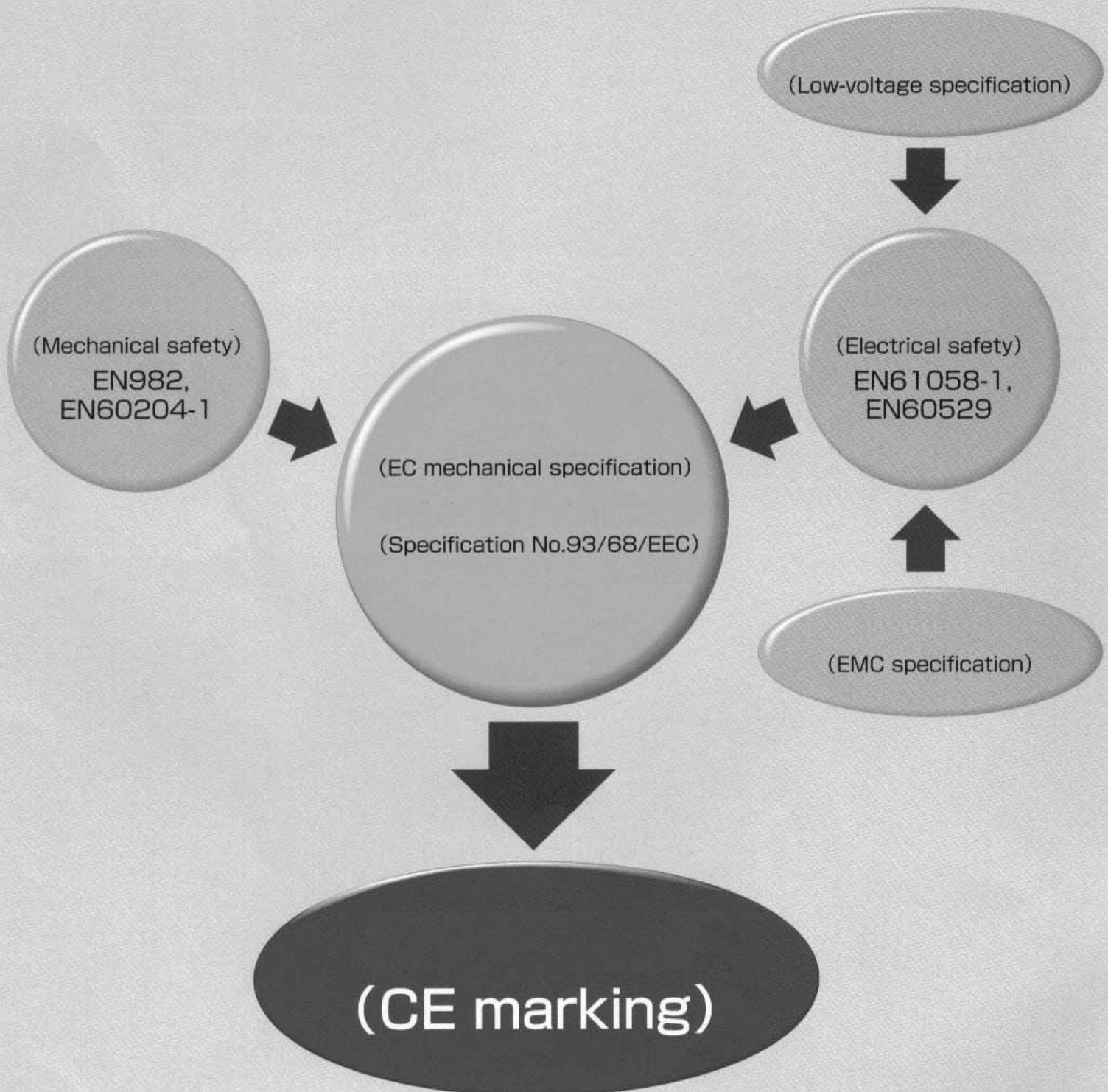


ACT ELECTRIC INDUSTRY CO., LTD.

ACT Pressure Switch CE Type



On-specification product for the European Safety Standard



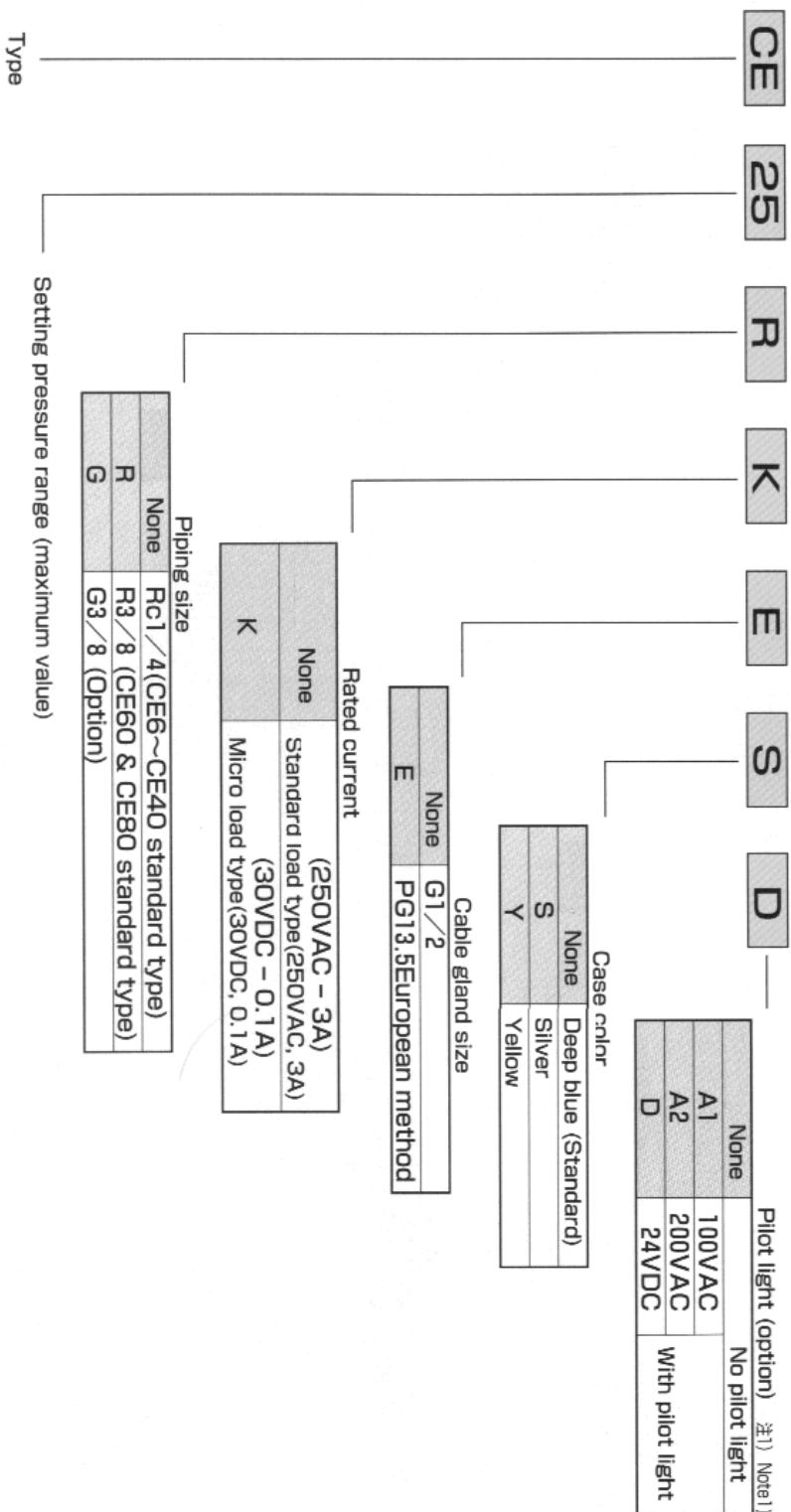
★ This CE-marking is the term used to denote on-specification products for the EC Standards, which is necessary for the products exported to European countries.

Features

- On-specification products for the European Safety Standard.
- Miniaturized lightweight design.
- Newly developed seal provides an outstanding stable performance for a high-frequency operation.
- Newly developed lever promises extended lifetime.
- Dustproof and Waterproof structure.(IP66)
- Simplified setting scale provides an easy setting operation.
- Screwless terminal board simplifies the wiring work.
- Built-in damper necessitates no external damper installation.
- Acquisition of UL & CSA standard qualification. (Approval pending)

Operation Guide

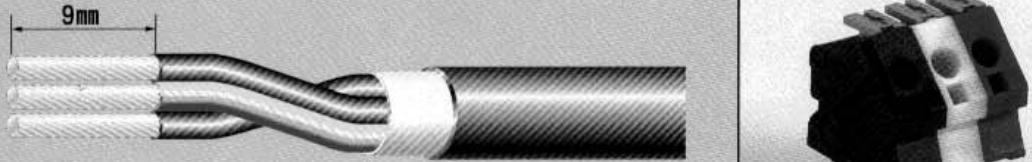
Model Number Designation



Note 1) The pilot light is built in a piece of DIN terminal and shall be a glow lamp or LED.

Screwless Terminal Block

It has a cable installed between the conductive fitting and the spring. Electrical circuit will be made by the spring force directly or through a spring seat.

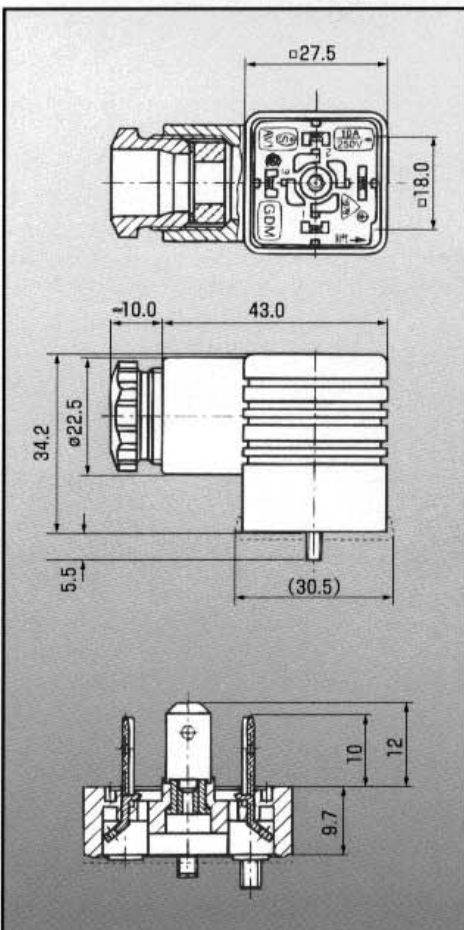
Current	300V-7A	
Cable specification	$\phi 1.0\text{mm}$	Solid cable of $\phi 1.0\text{mm}$
	0.75mm^2	Stranded cable of 0.75mm^2
Available cable	$\phi 0.4 \sim \phi 1.2\text{mm}$ (AWG26~18)	Solid cable of $\phi 0.4 - \phi 1.2\text{mm}$ (AWG26 - 18)
	$0.3 \sim 0.75\text{mm}^2$ (AWG22~20)	Stranded cable of $0.3 - 0.75\text{mm}^2$ (AWG22 - 20)
Stripping length		

Note: Diameter of each wire for stranded cable should be not less than $\phi 0.18\text{mm}$.

Cross-sectional area of cable and electric current

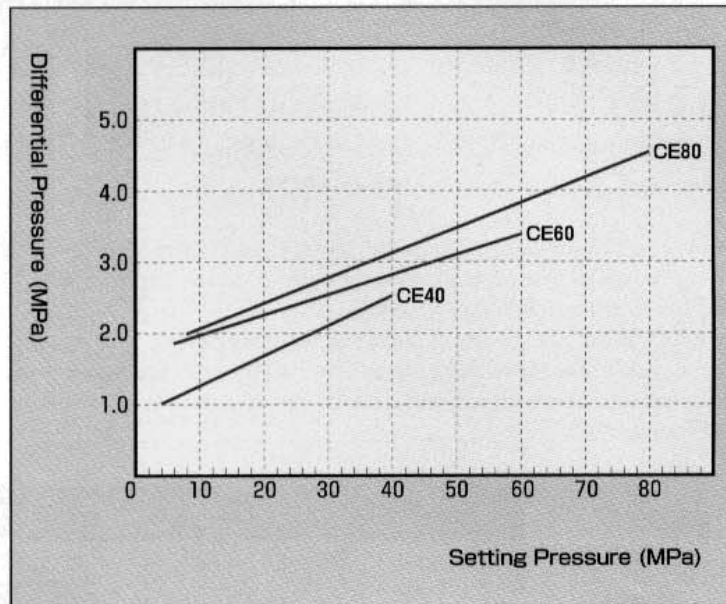
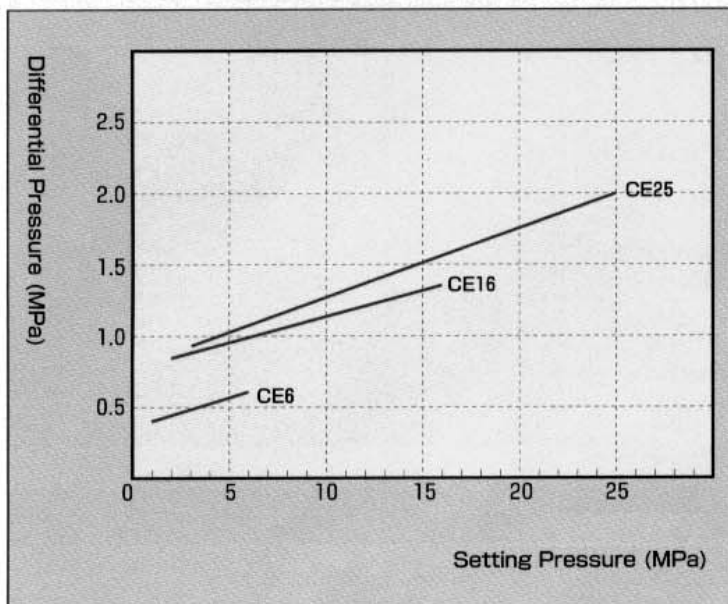
Solid cable	Stranded cable	Electric current
$\phi 1.0\text{mm}$	0.75mm^2	5A
$\phi 0.75\text{mm}$	0.5mm^2	3A

Dimensional Outline Drawing and Specifications for the DIN Terminal with A pilot light



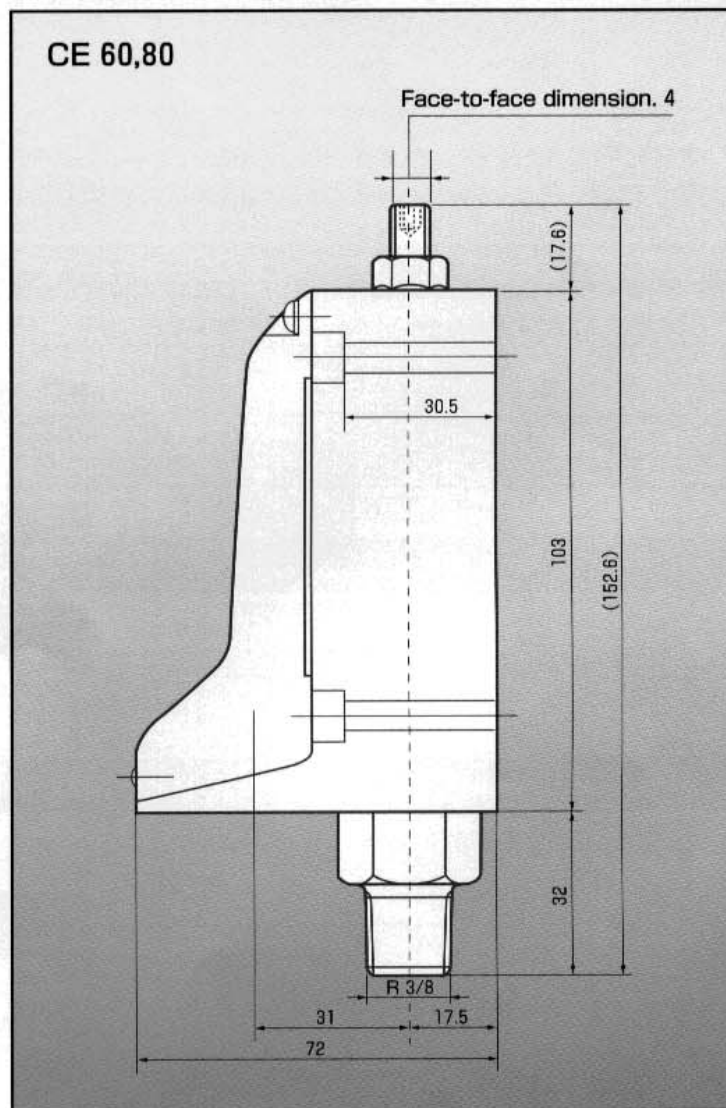
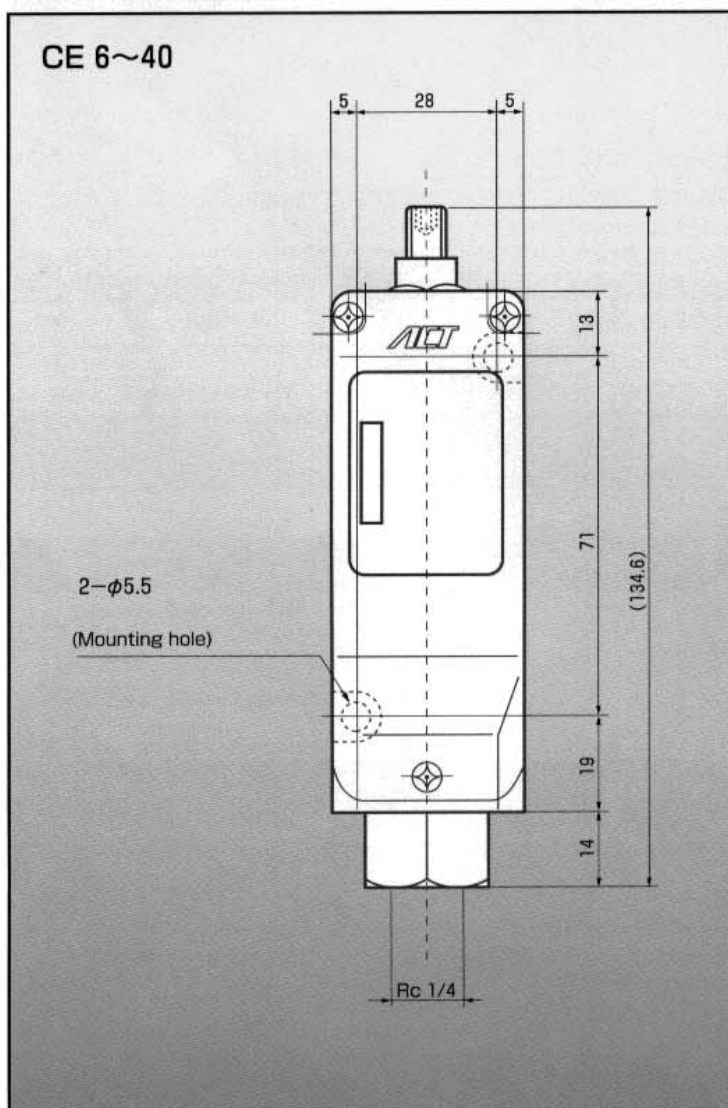
Item \ Designation	Connector with LED	Connector with neon glow lamp	
Rated voltage	24VDC	100VAC/DC	200VAC/DC
Available voltage	16~28VDC	80~125VAC/DC	170~242VAC/DC
Current Consumption	10mA	0.66mA	
Life cycle	More than 10,000,000 cycles.		
Contact resistance	4MΩ以下 Up to 4MΩ		
Room temperature	-20~+80℃		
Available cable	0.5~1.5mm ²		
O. D. of available cable	φ6.0~φ10.0mm		
Vibration-resistance	Vibrating acceleration:11G		

Differential Pressure Diagram



(Reference material)

Outline drawing



※Contact us for the respective outline drawings for the connection ports of G3/8.

Specifications

	CE6TY	CE16TY	CE25TY	CE40TY	CE60TY	CE80TY
Set pres. range	145 - 870 PSI	290 - 2320 PSI	435 - 3625 PSI	580 - 5800 PSI	870 - 8700 PSI	1160-11,600 PSI
Proof test pres.	8700 PSI		11,600 PSI		17,400 PSI	
Piping size	NPT 1 / 4				NPT 3 / 8	
Weight	1.12 lb / 500 g				1.32 lb / 600 g	
Repeat accuracy	+/-2% F.S.					
Hydraulic Fluids	Petroleum base hydraulic oil ISO VG32 and 46 fire-resistant hydraulic fluid : optional					
Room temp.	-20° to +80° C / -4° to +176°F					
Mechanical lifetime	10 million cycles or more					
Electrical lifetime	200,000 cycles or more, under rated load operation					
Max. freq. of operation	60 cycles / min.					
Rated current	250 VAC, 3A; 125VAC, 5A; 125VDC,0.4A; 30VDC,3A					
Type of Contact	Unipolar double throw SPDT					

Electrical Requirements at Contact Points

Type of contact : SPDT
Shape of contact : Rivet
Make and break rating

Type SS-5 Standard load type

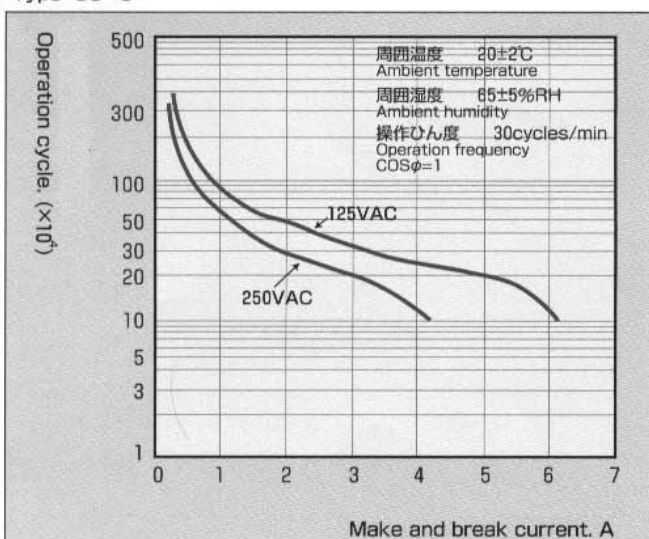
Current	Voltage	Resistance	Induction
AC	125 VAC	5 A	3 A
	250 VAC	3 A	2 A
DC	30 VDC	3 A	3 A
	125 VDC	0.4 A	0.4 A

Type SS-01 Micro load type

Current	Voltage	Resistance	Induction
AC	125 VAC	0.1 A	
DC	30 VDC	0.1 A	

Electrical Lifetime Curve

Type SS-5

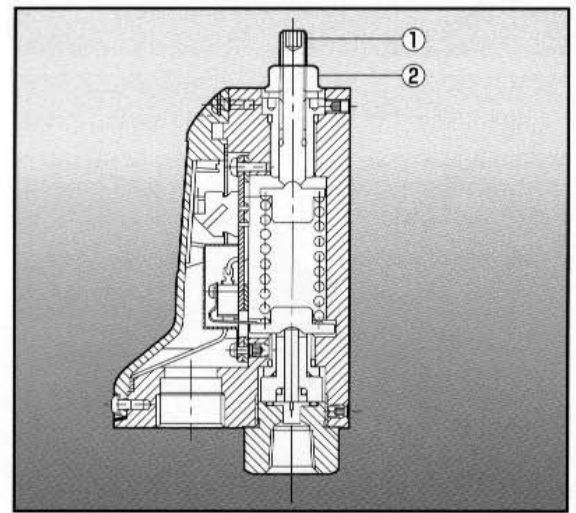


ALT Pressure Switch CE Type

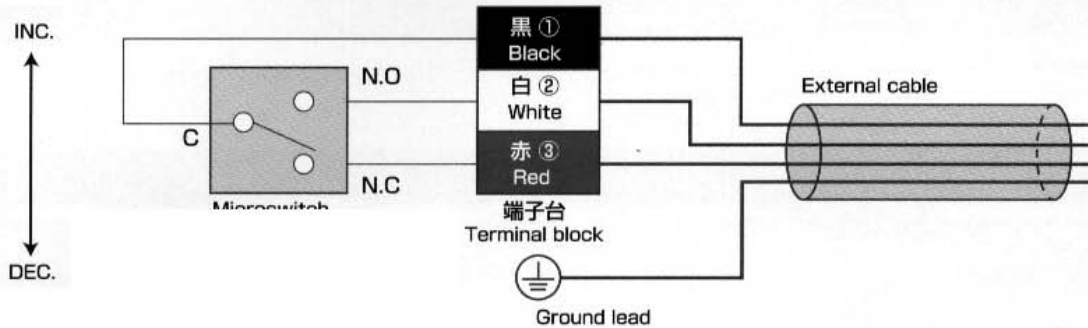
Adjusting Set Pressure

High-pressure setting, in the course of pressure increase, and low pressure setting, in the course of pressure decrease, can be done by rotating the adjusting bolt ①, according to the following procedure.

Loosen the locknut ② first. Rotate the adjusting bolt ① with an open end wrench. Clockwise rotation allows high-pressure setting and counterclockwise rotation does low-pressure setting. Remember! After the setting work, be sure to tighten the locknut ②.



Wiring

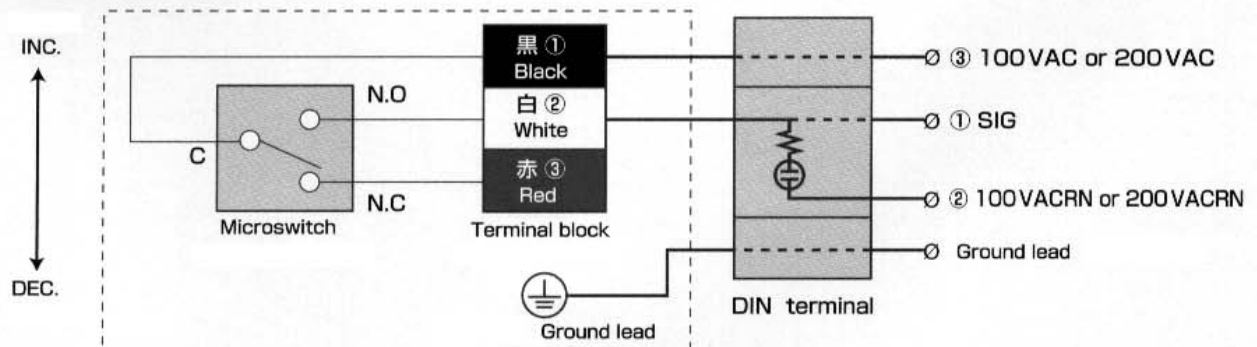


Terminal 1-2 (a-contact): Closed with the pressure increased

Terminal 1-3 (b-contact): Opened with the pressure increased

DIN Terminal Wiring Instruction, (option)

In the case of AC a-contact



DIN Terminal Wiring Instruction, (option)

In the case of DC a-contact

