



SEMAPHORE RELAY

SPR TYPE, SPL TYPE



FEATURES

If the equipment status related to circuits is shown with lamps, on the electric power system panel, the broken wire in any lamp disables this display making it impossible to determine the equipment status. Since the semaphore relay uses no lamp, the open / closed status of the equipment is always displayed accurately. The semaphore relay allows for visually checking whether the circuit is connected or not. The disconnecting switch and circuit-breaker, which shows their statuses with the round and square shapes, are simple and contributes to the improvement of the panel design.

SPECIFICATIONS (RATINGS, PERFORMANCE)

Specification \ Type	SPR-3□,4□	SPL-3□,4□
Rated insulation voltage (UI)	250V	
Rated operational voltage (Ith)	24V, 48V, 100 / 110V, 125V, 200 / 220V DC	
Voltage fluctuation range	80 to 125%	
Coil	Continuous excitation method	
Insulation resistance	Insulating-resistance tester (1,000V DC) 1,000MΩ or more.	
Power-Frequency withstand voltage	2,500V AC / 1 min.	
Rated impulse withstand voltage	±10kV (1.2/50μs) (Whole live part to mounting panel)	
Shock wave withstand voltage	±10,000V 1.2 / 50μs	
Shock resistance	50G or more	
Service life	100,000 times or more	
Location of use	Indoor	
Protective structure	Closed type	
Panel thickness	1 to 6mm	
Terminal connection	Faston #205 or M3 screw	
Weight	Approx. 130g	

Operational voltage	Coil resistor	Rated current	Power consumption
24V DC	650Ω	37mA	0.9W
48V DC	2,150Ω	23mA	1.1W
100V DC	7,000Ω	16mA	1.6W
125V DC	7,500Ω	17mA	2.1W
200V DC	32,000Ω	6.9mA	1.4W

* Tightning strength of terminal screws should be 0.8N·m.

* When tightning the nut with a nut tightning tool, tighten the nut within 0.6N·m.

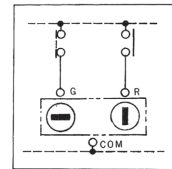
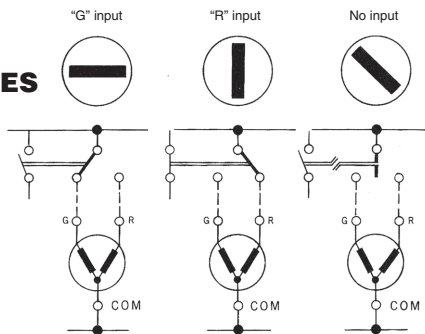
HOW TO ORDER

[SPR type, SPL type]

SPR - 4 0 S - DC11 B

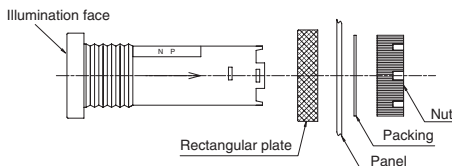
No.	Item	Code	Detail
①	Basic type	SPR	Round type
		SPL	Square type
②	Surface dimensions	4	Round type: $\phi 40$ Square type: $\square 43$
		3	Round type: $\phi 33$ Square type: $\square 35$
③	Display part		"G" input "R" input No input
		0	  
		1	  
		2	  
④	Terminal type and mounting hole	F	Tab terminal (without rotation stopper)
		S	Screw terminal (without rotation stopper)
		FT	Tab terminal (with rotation stopper)
		ST	Screw terminal (with rotation stopper)
⑤	Operational voltage	DC02	24V DC
		DC04	48V DC
		DC11	100 / 110V DC
		DC12	125V DC
		DC22	200 / 220V DC
⑥	Display value	B	Black

OPERATION AND CIRCUIT TYPES



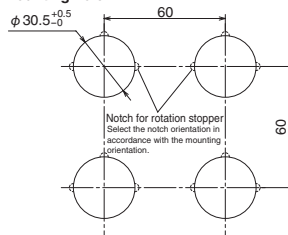
The above diagram shows terminal arrangement from upper side view.

HOW TO MOUNT



* For the L (SPL) type, the square plate is required as illustrated above.
(For the R type, this is not required.)

● Mounting hole



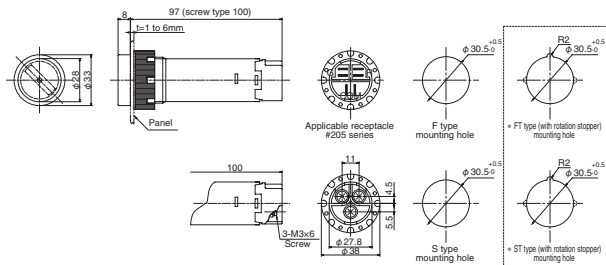
* To use any pitch other than the above, contact FUJI ELECTRIC INDUSTRY.



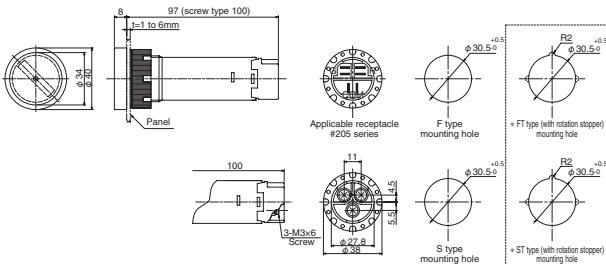
SEMAPHORE RELAY

SPR TYPE, SPL TYPE

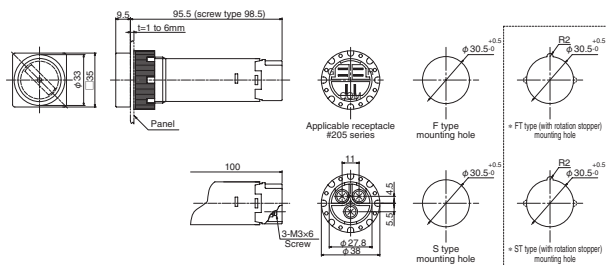
SPR-3



SPR-4



SPL-3



SPL-4

