

CS2B, 3B, 4B, 5B

Reed Switch Type Sensor Switch



Specifications

Item	Model	CS2B	CS3B	CS4B	CS5B
Wiring type	2-lead wire				
Load voltage	AC85～230V (r.m.s)		DC5～30V	DC5～30V	DC3～30V
Load current	2～200mA		10～46mA <small>Note 1</small>	5～25mA <small>Note 1</small>	0.1～80mA
Internal voltage drop	0.1V MAX. (At 200mA load current)	3V MAX. (At 46mA load current) <small>Note 2</small>		2.8V MAX. (At 25mA load current) <small>Note 2</small>	0.1V MAX. (At 80mA load current)
Leakage current	1mA MAX. (AC100V) 2mA MAX. (AC200V)		0mA		
Response time	2ms MAX.		1.2ms MAX.		
Insulation resistance	100MΩ MIN. (At DC500V Megger, between case and lead wire end)				
Dielectric strength	AC500V (50/60Hz) in 1 minute (Between case and lead wire end)				
Shock resistance <small>Note 3</small>	294.2m/s ² [30G] (Non-repeated shock)				
Vibration resistance <small>Note 3</small>	88.3m/s ² [9G] (Total amplitude 1.5mm [0.06in.], 10～55Hz), Resonance frequency 2200±300Hz				
Environmental protection	—				
Operation indicator	When ON: Red neon lamp turns off		When ON: Red LED indicator lights up		—
Lead wire	VCT 0.3SQ×2-lead×1500mm [59in.]				
Ambient temperature	0～60°C [32～140°F]				
Storage temperature range	－10～70°C [14～158°F]				
Contact protection	Not required		Required (See contact protection on p.1566.)		
Mass	60g [2.12oz.]				

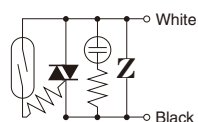
Notes: 1. Ta=37°C [98.6°F]

2. The internal voltage drop depends on load current.

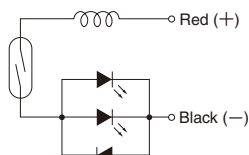
3. Measured by Koganei test standard.

Internal Circuit

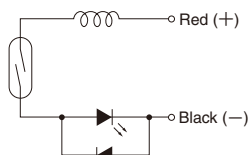
CS2B



CS3B



CS4B

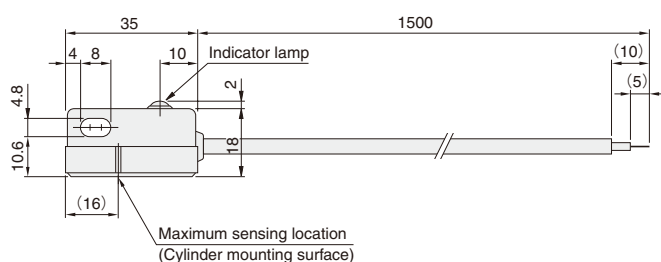


CS5B

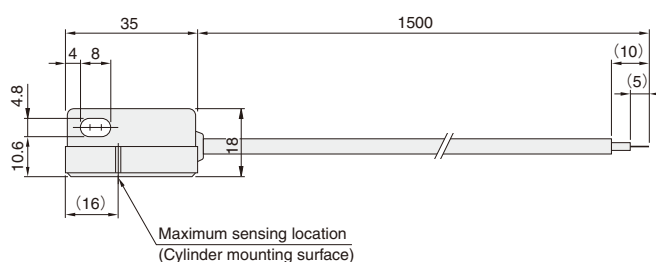


Dimensions (mm)

CS2B, CS3B, CS4B



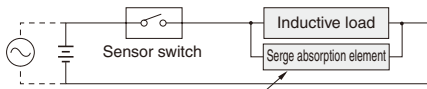
CS5B



Contact Protection for Reed Switch Type Sensor Switches

In order to use the reed switch type sensor switches in a stable condition, take the following contact protection measures.

● When you connect inductive load (electromagnetic relay, etc.).



For DC... Diode, CR, etc.

For AC... CR, etc.

Diode: Forward current should be more than the circuit current.

Reverse voltage should be peak inverse voltage that is 10 times or more of the circuit voltage.

CR: $C=0.01 \sim 0.1\mu\text{F}$

$R=1 \sim 4\text{k}\Omega$

● When capacity surge is generated.

(When lead wire length exceeds 10m.)

