



- No failure operation occurred due to noise and surge
- Contactless design – maintenance free
- Reed Switch Inside – 2 Wires Need Only
- Operate in circuit of 100 VDC or greater without amplify relay – SPM21-EX1

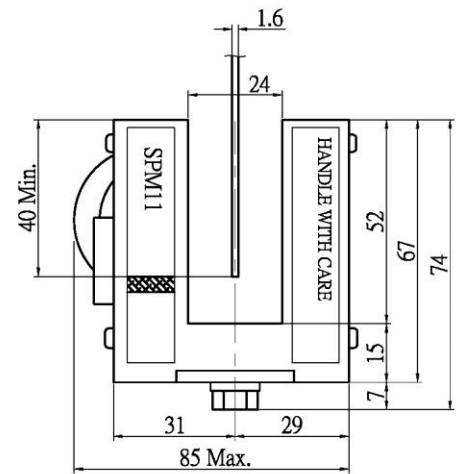
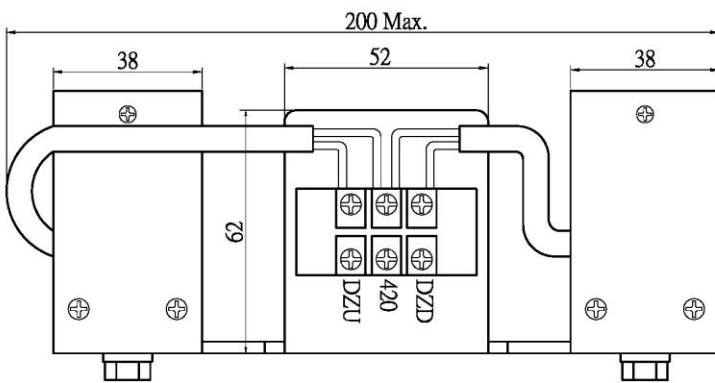
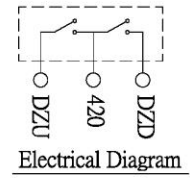
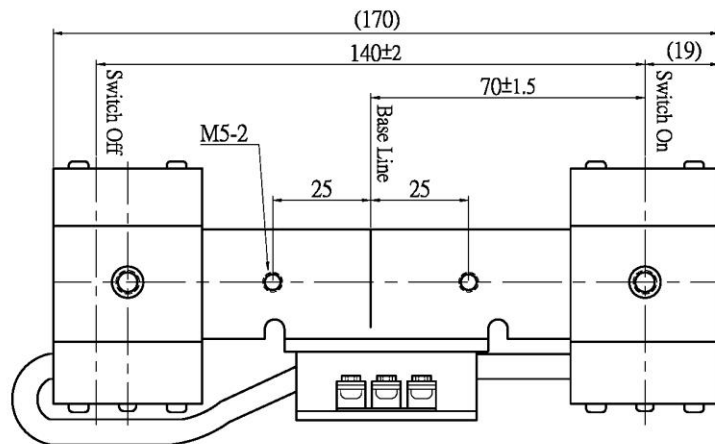
◆ Technical Data

Parameter		SPM01-EX1	SPM21-EX1
Contact structure		1A contact (use 2 unit)	
Basic operating characteristic		Depend on the following Layout Dwg	
Life	Mechanical Life	10 ⁷	10 ⁸
	DC 24V, 40mA (Relay Coil)	5x10 ⁶	1.5x10 ⁷
	DC 48V, 20mA (Relay Coil)	5x10 ⁶	1.5x10 ⁷
	DC 48V, 300mA (Resistive Load)	2x10 ⁶	1.0x10 ⁷
Contact rating	Max. Carrying Current	2A	15A
	Max. Breaking Current	240VAC, 1A (PF:0.4) 115VDC, 0.1A (L/R:40ms)	240VAC, 15A (PF:0.4) 115VDC, 0.5A (L/R:40ms)
	Potential between contacts	0.5V or less at current carrying DC6V 0.14A (equivalent to contact resistance)	
	Min. Operational Power Rating	24V 1mA	
Electrical Characteristic	Max. Contact Capacitance	0.4 pF	0.5 pF
	Max. Initial Contact Resistance	500 mΩ	1000 mΩ
	Insulation Resistance	Min. 100MΩ - DC 500V	
	Withstand Voltage	Contact - Contact	AC 300V , 1min
Contact - Earth		AC 1500V , 1min	
Response Speed		Max. 100 Hz	
Standard Shield Iron Plate		t1.6 x 60 x100 mm (min. t1.2)	
Vibration Characteristic	Malfunction Limit	Vibration Acceleration 2G, 10~200Hz	
	Vibration Durability	Vibration Width 1.5mm(30Hz), 3 Direction – Each Direction 2H	
Impact Characteristic	Malfunction Limit	Impact Acceleration 10G	
	Breaking Limit	Impact Acceleration 50G	
Environment Characteristic	Humidity	95% RH Max.	
	Ambient temperature	- 10°C ~ 50°C	
	Keeping temperature	- 25°C ~ 70°C	
Structure	Protection structure	Disposable dust	
	Estimated mass	0.7 kgf	
	Connection wire	2Cx0.5mm ²	

Reference standard:

1. Electrical life span test method: Contactor type electromagnetic relay JIS C 4531
2. Electrical life span test method: Hinge type electromagnetic relay JIS C 4531
3. Vibration test method: MIL-STD-202
4. Impact test method: MIL-STD-202
5. Contact reliability test method: JIS C 5442

◆ **Dimension:**



YX401C097