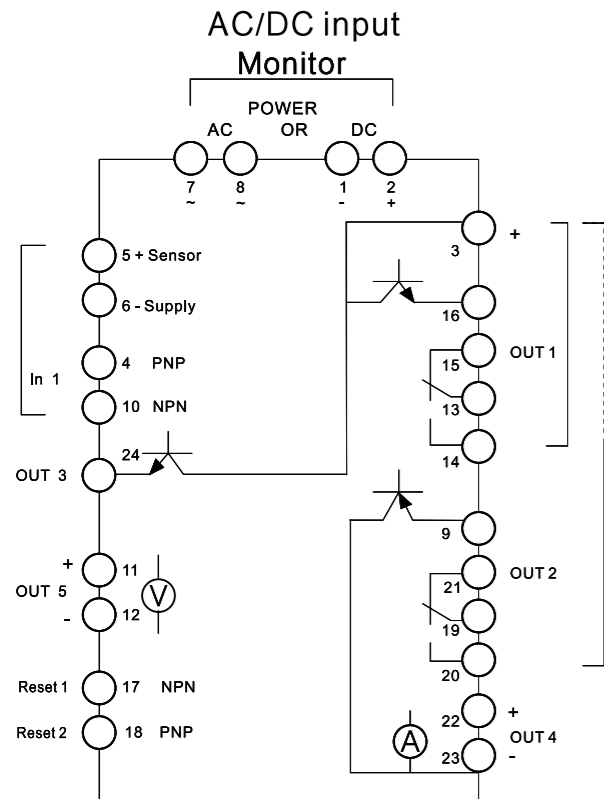


**Connection**

1.2 Single channel input

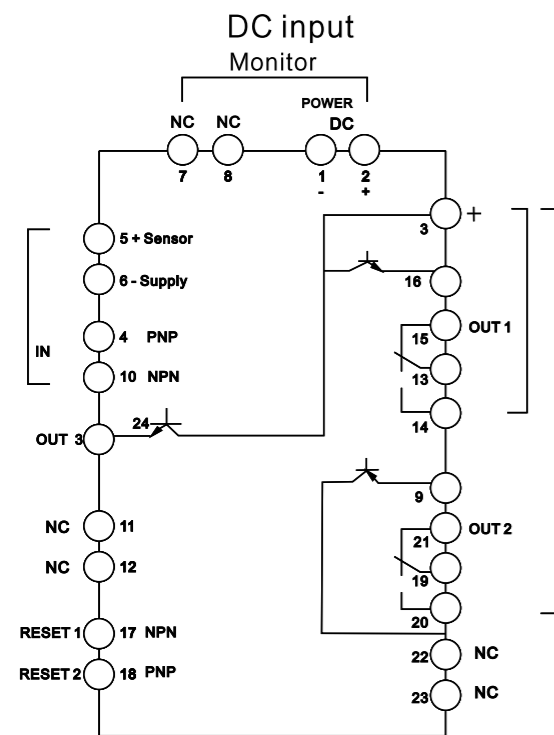


Relay output (Out1/2)      Analogue output (Out4/5)  
Transistor output (Out1/2/3)      Reset input (reset1 and reset2)

Wiring

Lead	Function
1	DC Supply voltage(L-)
2	DC Supply voltage(L+)
3	Supply transistor outputs(L+)
4	Sensor signal PNP
5	DC Sensor supply (L+)
6	DC Sensor supply (L-)
7	AC Supply voltage
8	AC Supply voltage
9	Transistor output(NPN)
10	Sensor signal NPN
11	Analogue voltage output(L+)
12	Analogue voltage output(L-)

Lead	Function
13	Relay 1 (center contact)
14	Relay 1 (NO contact)
15	Relay 1 (NC contact)
16	Transistor output 1 PNP
17	Reset 1 NPN
18	Reset 2 PNP
19	Relay 2 (center contact)
20	Relay 2 (NO contact)
21	Relay 2 (NC contact)
22	Analogue current output (+)
23	Analogue current output (-)
24	Transistor output 2 PNP



Relay output (Out1/2)      Reset input (reset1 and reset2)  
Transistor output (Out1/2/3)

Wiring

Lead	Function
1	DC Supply voltage(L-)
2	DC Supply voltage(L+)
3	Supply transistor outputs(L+)
4	Sensor signal PNP
5	DC Sensor supply (L+)
6	DC Sensor supply (L-)
7	NC
8	NC
9	Transistor output NPN
10	Sensor signal NPN
11	NC
12	NC

Lead	Function
13	Relay 1 (center contact)
14	Relay 1 (NO contact)
15	Relay 1 (NC contact)
16	Transistor output 1 PNP
17	Reset 1 NPN
18	Reset 2 PNP
19	Relay 2 (center contact)
20	Relay 2 (NO contact)
21	Relay 2 (NC contact)
22	NC
23	NC
24	Transistor output 2 PNP

Order No.	SM1001	SM1003	SM1002
Model	Single channel input	Single channel input	Dual channel input
Applications	Detection of frequency, rotational rate speed, pulse & the cycle time		
Setting range [ Rotational rate/ Frequency ]	1...60000RPM/0.1...1000.0HZ		
Rated voltage[V]	230VAC(50-60HZ)/24VDC	24VDC	230VAC(50-60HZ)/24VDC
Voltage tolerance[%]	10%		
Contact loading	8A(1250VA/250VAC)		
Power consumption[VA]	5(3W)		
Analogue output	0/4...20mA ( 500 Ω ) ; 0...10V	-	-
Pulse input	PNP/NPN; Supply voltage:24VDC/15mA, Switch point for PNP:>12V On; <5V Off, Switch point for NPN:>15V Off;<5V on Input frequency (Max.): 5KHz (Corresponding min.pulse length/interval 0.1ms)		
Transistor output	PNP / NPN	PNP / NPN	PNP
Measuring error[% of the final value]	< 1%		
Switching function	Two switching points for monitoring the output is below/above setting range		
Max.relative air humidity [%]	75 ( 35°C )		
Ambient temperature[°C/°F]	-20...60/-4...140		
Storage temperature[°C/°F]	-25...80/-13...176		
Protection classification	IP50 / IP20		
Housing material	PBT+GF		
Function display	Switching State LED	Green (Light on under actuation of relay/connection of transistor)	
	Input signal LED	Red	
	Function LED	LCD Display:7/14 Segment	
Connection	Dual-chamber terminals		
Drawing			

Inductive Proximity Sensors  
 Capacitive Proximity Sensors  
 Valve Proximity Sensors  
 Speed Monitor