



Speed Monitor



This product can complete test and monitor the speed or pulse sequences by the collections of sensors. It can monitor rotating motion, straight-line motion, and all physical units converted to the pulse-group. It owns powerful and various functions for monitoring the excessive frequency, the speed rate, operation synchronization, and the reverse (slow/quick rate of rotation, and time-consuming synchronization or direction).



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Features



- Smart speed monitor. User can easily set the frequency, rotation rate, pulse, and the warning signal
- Output: PNP, NPN, Relay, 0/4~20mA, 0~10V
- Display: LCD
- Power protection: overload, short-circuit, reverse polarity
- Mounting: DIN35
- Protection classification: IP50
- Certification: CE, RoHS

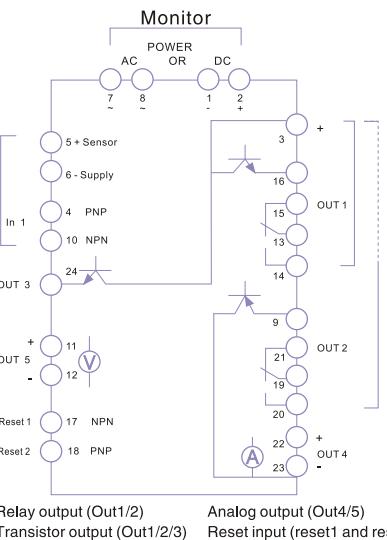
Applications

This product is applied to monitor rapid pulse-group and meantime the standard signal collected by the sensors can be displayed, detected, and recorded. It is used to broadly monitor the operation of the electric machinery, the rotation of the conveyor belt, the rotation of the wind turbines blades, and the direction of electric machinery.

Operating principle

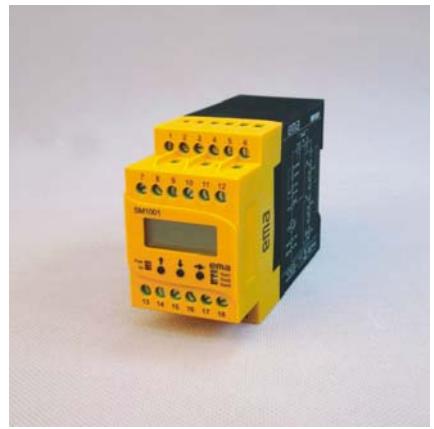
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Connection



Wiring

	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 outputNPN
10	Sensor signal NPN
11	Analog current output (+)
12	Analog current output (-)
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	Analog current output (-)
23	Analog voltage output (L+)
24	Transistor output-2 PNP



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- Display: LCD
- Mounting: DIN35
- Output: PNP, NPN, Relay, 0/4~20mA, 0~10V
- Power protection: overload, short-circuit, reverse polarity

**Order information**

Order No.	Rotation Setting (RPM)	Frequency Setting (Hz)	Rated voltage [V]	Input	Output function	Analog output	Relay output	Transistor output	Drawing NO.
SM1001	1~60000	0.1~1000	230 AC / 24 DC	2	PNP / NPN / Namur	2	2	2	E1S01
SM1002	1~60000	1~2200	24 DC	1	PNP / NPN	0	2	2	E1S01
SM1003	1~60000	0.1~1000	110 AC / 24DC	2	PNP / NPN / Namur	2	2	2	E1S01
SM1004	1~60000	0.1~1000	220 AC / 24DC	2	PNP / NPN	2	2	0	E1S01

Drawing