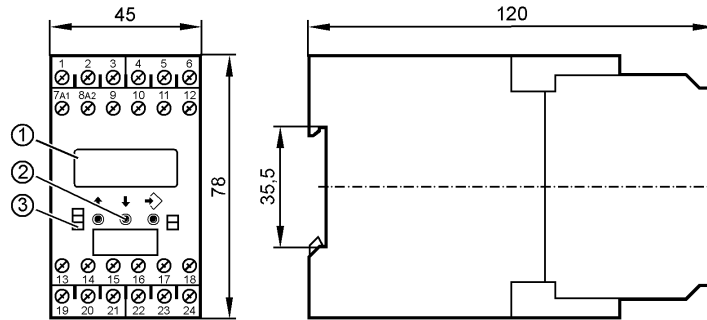




MONITOR/FS-1N/ 23-60VAC/DC

Evaluation systems, power supplies



- 1: LCD display; 7/14-segment
- 2: Programming buttons
- 3: LEDs



Product characteristics

MONITOR

FS-1N

Housing for DIN rail mounting

NAMUR inputs with wire monitoring

2 relay outputs

2 transistor outputs

programmable

Test function without external frequency

Key function

Application

Application

pulse evaluation system with μ processor for slip/synchronous monitoring as well as frequency; rotational speed and speed

Switching function

1 switching output for slip monitoring; 1 switching output for overspeed/underspeed and acceptable range

Electrical data

Nominal voltage [V]

23...60 AC/DC (50...60 Hz) / 27 DC (typ. 24 DC)

Voltage tolerance [%]

-20...+10

Power consumption [VA]

5 (3 W)

Inputs

Inputs

NAMUR (EN 50227)
 auxiliary supply: typ. 8.2 V DC; short-circuit protected
 wire monitoring: < 0.1 mA / > 6.0 mA
 input frequency (max): 5 kHz (min. pulse length 0.1 ms)

Outputs

Relay

Contact rating

6 A (250 V AC); B300, R300

Transistor

Transistor outputs

pnp; external supply
 switching voltage/current: 24 V DC / max. 15 mA; short-circuit protected

Measuring / setting range

Adjustment range

slip: 0.1...99.9 %
 rotational speed (frequency): 1...60000 pulses/min (0.1...1000 Hz)

Accuracy / deviations

Measuring error [% of the final value]

< 1

DS2104 - MONITOR - eclass: 27279213 / 27-27-92-13

Environment	
Ambient temperature [°C]	-20...60
Storage temperature [°C]	-25...80
Max. relative air humidity [%]	75 (35°C)
Protection housing / terminals	IP 50 / IP 20
Tests / approvals	
EMC	EN 61010: 1993 + A2: 1995 EMC 89/336/EEC EN 50081-1 EN 61000-6-2
Mechanical data	
Housing materials	plastics
Weight [kg]	0.412
Displays / operating elements	
Input pulses LED	yellow (input pulses); red (wire fault)
Output status indication LED	green (lights when the relay is energised / the transistor is closed)
Display	LCD display; 7/14-segment
Electrical connection	
Connection	dual-chamber terminals 2 x 2.5 mm ² (2 x AWG 14)
Wiring	
1: DC Supply voltage (L-) 2: DC Supply voltage (L+) 3: supply transistor outputs (L+) 4: error output 1 5: 8.2 V DC Sensor supply 1 (L-) 6: 8.2 V DC Sensor supply 1 (L+) 7: AC/DC Supply voltage 8: AC/DC Supply voltage 9: n.c. 10: error output 2 11: 8.2 V DC Sensor supply 2 (L-) 12: 8.2 V DC Sensor supply 2 (L+) 13: Relay 1 (common) 14: Relay 1 (normally open) 15: Relay 1 (normally closed) 16: transistor output 1 pnp 17: Reset 1 pnp 18: Reset 2 pnp 19: Relay 2 (common) 20: Relay 2 (normally open) 21: Relay 2 (normally closed) 22: n.c. 23: n.c. 24: transistor output 2 pnp	
Remarks	
Remarks	overvoltage category II; degree of soiling 2
Pack quantity [piece]	1