

# Brief Instructions

Rotation Speed Monitor S1SD-1FI-1R

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## Configuration Using DIP Switches

Use the switches to configure the device. Via the switches you can select only a limited number of sensors. A wider range of sensors you can select via software configuration. The following options are available:

Switch	S1		
	1	2	3
PC setting			
NAMUR/SN sensor	ON		
Mechanical contact		ON	
2-wire DC sensor	ON	ON	
NPN sensor			ON
PNP sensor	ON		ON
S0 sensor		ON	ON
AC source (magnetic sensor)	ON	ON	ON

Switch	S1						
	4	5	6	7	8	9	10
Trip mode MIN alarm							
Trip mode MAX alarm	ON						
Mode of operation active							
Mode of operation passive		ON					
Hysteresis 1 %							
Hysteresis 5 %			ON				
Hysteresis 10 %				ON			
Hysteresis 25 %			ON	ON			
Start-up override 10 s							
Start-up override 120 s					ON		
Filter disabled							
Filter enabled						ON	
Restart inhibit disabled							
Restart inhibit enabled							ON

Switch	S2						
	1	2	3	4	5	6	7
1 Hz							
2 Hz	ON						
3 Hz		ON					
4 Hz	ON	ON					
5 Hz			ON				
6 Hz	ON		ON				
7 Hz		ON	ON				
8 Hz	ON	ON	ON				
9 Hz				ON			
10 Hz	ON			ON			
11 Hz		ON		ON			
12 Hz	ON	ON		ON			
13 Hz			ON	ON			
14 Hz	ON		ON	ON			
15 Hz		ON	ON	ON			
16 Hz	ON	ON	ON	ON			
17 Hz					ON		
18 Hz	ON				ON		
19 Hz		ON			ON		

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Switch	S2						
	1	2	3	4	5	6	7
20 Hz	ON	ON			ON		
21 Hz			ON		ON		
22 Hz	ON		ON		ON		
23 Hz		ON	ON		ON		
24 Hz	ON	ON	ON		ON		
25 Hz				ON	ON		
26 Hz	ON			ON	ON		
27 Hz		ON		ON	ON		
28 Hz	ON	ON		ON	ON		
29 Hz			ON	ON	ON		
30 Hz	ON		ON	ON	ON		
31 Hz		ON	ON	ON	ON		
32 Hz	ON	ON	ON	ON	ON		
33 Hz						ON	
34 Hz	ON					ON	
35 Hz		ON				ON	
36 Hz	ON	ON				ON	
37 Hz			ON			ON	
38 Hz	ON		ON			ON	
39 Hz		ON	ON			ON	
40 Hz	ON	ON	ON			ON	
41 Hz				ON		ON	
42 Hz	ON			ON		ON	
43 Hz		ON		ON		ON	
44 Hz	ON	ON		ON		ON	
45 Hz			ON	ON		ON	
46 Hz	ON		ON	ON		ON	
47 Hz		ON	ON	ON		ON	
48 Hz	ON	ON	ON	ON		ON	
49 Hz					ON	ON	
50 Hz	ON				ON	ON	
51 Hz		ON			ON	ON	
52 Hz	ON	ON			ON	ON	
53 Hz			ON		ON	ON	
54 Hz	ON		ON		ON	ON	
55 Hz		ON	ON		ON	ON	
56 Hz	ON	ON	ON		ON	ON	
57 Hz				ON	ON	ON	
58 Hz	ON			ON	ON	ON	
59 Hz		ON		ON	ON	ON	
60 Hz	ON	ON		ON	ON	ON	
61 Hz			ON	ON	ON	ON	
62 Hz	ON		ON	ON	ON	ON	
63 Hz		ON	ON	ON	ON	ON	
64 Hz	ON	ON	ON	ON	ON	ON	
65 Hz							ON
66 Hz	ON						ON
67 Hz		ON					ON
68 Hz	ON	ON					ON
69 Hz			ON				ON
70 Hz	ON		ON				ON

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Switch	S2						
	1	2	3	4	5	6	7
71 Hz		ON	ON				ON
72 Hz	ON	ON	ON				ON
73 Hz				ON			ON
74 Hz	ON			ON			ON
75 Hz		ON		ON			ON
76 Hz	ON	ON		ON			ON
77 Hz			ON	ON			ON
78 Hz	ON		ON	ON			ON
79 Hz		ON	ON	ON			ON
80 Hz	ON	ON	ON	ON			ON
81 Hz					ON		ON
82 Hz	ON				ON		ON
83 Hz		ON			ON		ON
84 Hz	ON	ON			ON		ON
85 Hz			ON		ON		ON
86 Hz	ON		ON		ON		ON
87 Hz		ON	ON		ON		ON
88 Hz	ON	ON	ON		ON		ON
89 Hz				ON	ON		ON
90 Hz	ON			ON	ON		ON
91 Hz		ON		ON	ON		ON
92 Hz	ON	ON		ON	ON		ON
93 Hz			ON	ON	ON		ON
94 Hz	ON		ON	ON	ON		ON
95 Hz		ON	ON	ON	ON		ON
96 Hz	ON	ON	ON	ON	ON		ON
97 Hz						ON	ON
98 Hz	ON					ON	ON
99 Hz		ON				ON	ON

Switch	S2		
	8	9	10
x 0.01	ON		
x 0.1		ON	
x 1	ON	ON	
x 10			
x 100			ON
x 1000	ON		ON

### Configuration Using Software

Use software to configure the device. Configuration must be permitted by setting the switches. See table.

The device is equipped with a programming socket on the front. A corresponding adapter is available as an accessory. This adapter can be used to configure the device. The software is available to download from [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

The following options are available:

- You can choose from a wider range of sensor types.
- You can adjust the start value and end value in smaller increments.

## Factory Setting

In the delivery state the DIP switches on the device side are in the OFF position. This setting corresponds to the **PC setting** option. The following values are preset with this setting.

Function	Settings
Sensor	NAMUR/SN sensor
Trip mode	MIN alarm
Mode of operation	active
Trip point	10 Hz
Hysteresis	1 %
Filter	disabled
Start-up override	10 s
Restart inhibit	disabled

## LED Indicators

The following status displays are provided on the front of the device.

LED	Status	Description
green LED	Off	Insufficient power supply, device not functioning
	On	Power supply OK
yellow LED	Off	Relay de-energized
	On	Relay energized
red/yellow LED	Flashing yellow	Indicates input pulses
	Flashing red	Line fault, incorrect setting
	Red on	Device is in startup phase/device fault or insufficient power supply
	Flashing red briefly	Restart inhibit is active