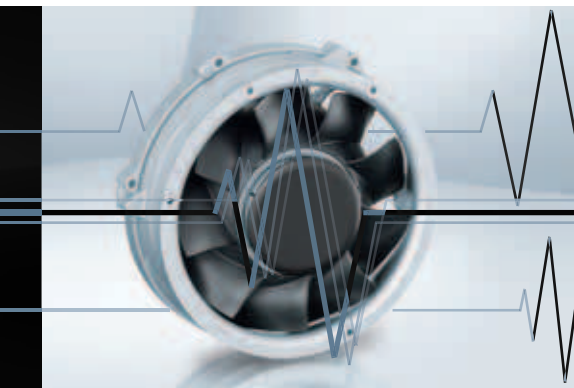
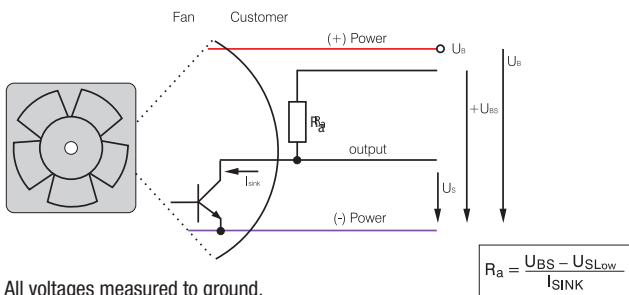


Speed signal /2



- Speed-proportional rectangular pulse for external speed monitoring of fan motor
- 2, 3 or 6 pulses per revolution
- Open collector signal output
- Extremely wide operating voltage range
- Easy adaptation to user interface
- Connection via separate lead
- The sensor signal also serves as a major comparison variable for setting and maintaining the setpoint speed for interactive or controlled cooling with one or several interconnected fans.

Electrical connection

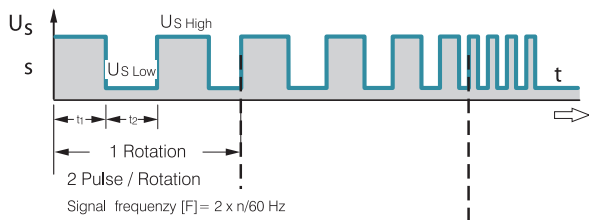


All voltages measured to ground.
External load resistor R_a / U_S / U_{BS} required.

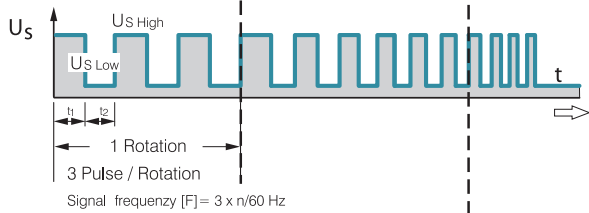
$$R_a = \frac{U_{BS} - U_{S\text{Low}}}{I_{\text{SINK}}}$$

Signal output voltage

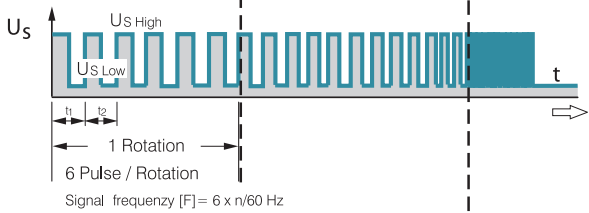
Standard signal for all models (exceptions see below)



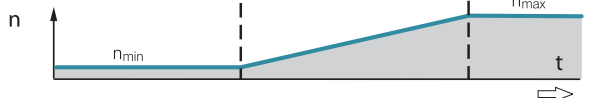
only for 4100 NH7 and NH8



Alle TD Lüfter. Bsp.: 6400 TD



Fan Speed



Signal data	Speed signal $U_{S\text{Low}}$	Condition: I_{sink}	Speed signal $U_{S\text{High}}$	Condition: I_{source}	Sensor operating voltage $U_{BS\text{ max.}}$	Perm. sink current $I_{\text{sink max.}}$	Pulses per revolution	Fan description	Basic type
Type	VDC	mA	VDC	mA	VDC	mA	Page		
250	≤ 0,4	2	≤ 30	0	30	2	2	31	
400 F	≤ 0,4	1	≤ 30	0	30	2	2	32	
400	≤ 0,4	1	≤ 30	0	30	2	2	33	
420 J	≤ 0,4	2	≤ 15	0	15	4	2	34	
500 F	≤ 0,4	1	≤ 30	0	30	2	2	35	
600 F	≤ 0,4	1	≤ 30	0	30	2	2	36	
620	≤ 0,4	2	≤ 30	0	30	4	2	37	
630 U	≤ 0,4	2	≤ 30	0	30	4	2	38	
600 N	≤ 0,4	2	≤ 28	0	28	4	2	39	
600 J	≤ 0,4	2	≤ 30	0	30	4	2	41	
700 F	≤ 0,4	2	≤ 30	0	30	4	2	42	
8450	≤ 0,4	2	≤ 28	0	28	4	2	43	
8400 N	≤ 0,4	2	≤ 28	0	28	4	2	44	
8400 N VARIOFAN	≤ 0,4	2	≤ 30	0	30	4	2	45	
8300	≤ 0,4	2	≤ 30	0	30	4	2	46	
8200 J	≤ 0,4	2	≤ 30	0	30	4	2	47	
3400 N	≤ 0,4	2	≤ 28	0	28	4	2	48	
3400 N VARIOFAN	≤ 0,4	2	≤ 30	0	30	4	2	49	
3300	≤ 0,4	2	≤ 30	0	30	4	2	50	
3300 N	≤ 0,4	2	≤ 30	0	30	4	2	51	
3212 J / 3214 J	≤ 0,4	2	≤ 30	0	30	4	2	52	
3218 J	≤ 0,4	2	≤ 60	0	60	4	2	52	
3250 J	≤ 0,4	2	≤ 60	0	60	4	3	53	
4412 F / 4414 F	≤ 0,4	2	≤ 30	0	30	4	2	54	
4418 F	≤ 0,4	2	≤ 60	0	60	4	2	54	
4400 FN	≤ 0,4	2	≤ 30	0	30	4	2	55	
4312 / 4314	≤ 0,4	2	≤ 30	0	30	4	2	56	
4318	≤ 0,4	2	≤ 60	0	60	4	2	56	
4312 / 4314 VARIOFAN	≤ 0,4	2	≤ 30	0	30	4	2	57	
4318 VARIOFAN	≤ 0,4	2	≤ 60	0	60	4	2	57	
4400	≤ 0,4	2	≤ 30	0	30	4	2	58/59	
4100 N	≤ 0,4	2	≤ 30	0	30	4	2	60	
4100 NHH...NH6	≤ 0,4	2	≤ 60	0	60	10	2	61	
4100 NH7...NH8	≤ 0,4	2	≤ 60	0	60	20	3	62	
DV 4100	≤ 0,4	2	≤ 30	0	30	4	2	63	

Subject to alternations

Available on request:

- Electrically isolated sensor and signal circuit
- Varying voltage potentials for power and logic circuit

Signal data	Speed signal U _S Low	Condition: I _{sink}	Speed signal U _S High	Condition: I _{source}	Sensor operating voltage U _{GS} max.	Perm. sink current I _{sink} max.	Pulses per revolution	Fan description Basic type
Type	VDC	mA	VDC	mA	VDC	mA		Page
5200 N	≤ 0,4	2	≤ 30	0	30	4	2	64
DV 5200	≤ 0,4	2	≤ 30	0	30	4	2	65
5112 N	≤ 0,4	2	≤ 15	0	5	20	2	66
5114 N / 5118 N	≤ 0,4	2	≤ 60	0	60	20	2	66
5300	≤ 0,4	2	≤ 72	0	72	4	2	67
5300 TD	≤ 0,4	2	≤ 72	0	72	20	6	68
7112 N / 7118 N	≤ 0,4	2	≤ 60	0	60	20	2	69
7114 N	≤ 0,4	2	≤ 30	0	30	20	2	69
7200 N	≤ 0,4	2	≤ 15	0	15	20	2	70
6300	≤ 0,4	2	≤ 72	0	72	20	2	72
6300 TD	≤ 0,4	2	≤ 72	0	72	20	6	73/74
DV 6300	≤ 0,4	2	≤ 72	0	72	20	6	75
6400	≤ 0,4	2	≤ 60	0	60	20	2	76
2200 FTD	≤ 0,4	2	≤ 72	0	72	20	6	80
RL 48	≤ 0,4	2	≤ 30	0	30	4	2	95
RL 65	≤ 0,4	2	≤ 30	0	30	4	2	96
RL 90 N	≤ 0,4	2	≤ 30	0	30	4	2	97
RLF 100	≤ 0,4	2	≤ 30	0	30	4	2	98
RG 90 N	≤ 0,4	2	≤ 30	0	30	4	2	99
RG 125 N	≤ 0,4	2	≤ 30	0	30	4	2	100
RG 160 N	≤ 0,4	2	≤ 30	0	30	20	2	101
RG 160 NTD	≤ 0,4	2	≤ 60	0	60	20	6	102
RG 190 TD	≤ 0,4	2	≤ 72	0	72	20	6	103
RG 220 TD	≤ 0,4	2	≤ 72	0	72	20	6	104
RG 225 TD	≤ 0,4	2	≤ 72	0	72	20	6	105
RET 97 TD	≤ 0,4	2	≤ 72	0	72	20	6	106
REF 100	≤ 0,4	2	≤ 30	0	30	4	2	107
RER 120 TD	≤ 0,4	2	≤ 72	0	72	20	6	109
RER 133 TD	≤ 0,4	2	≤ 72	0	72	20	6	113
RER 160 NTD	≤ 0,4	2	≤ 60	0	60	20	6	115
REF 175 TD	≤ 0,4	2	≤ 72	0	72	20	6	116
RER 175 TD	≤ 0,4	2	≤ 72	0	72	20	6	117
RER 190 TD	≤ 0,4	2	≤ 72	0	72	20	6	118
RER 220 TD	≤ 0,4	2	≤ 72	0	72	20	6	124
RER 225 TD	≤ 0,4	2	≤ 72	0	72	20	6	125

Subject to alternations

Note:

With these fan options, deviations in regard to temperature range, voltage range and power consumption are possible compared with standard fan data.