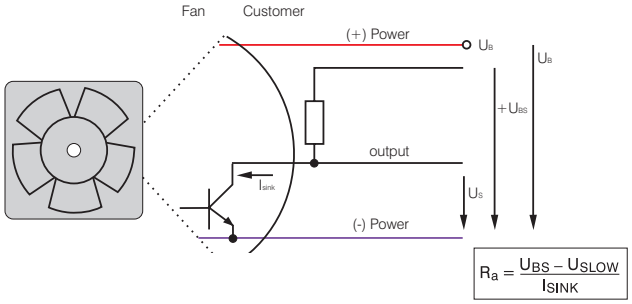
Sensor signal /2 “tacho”

- Speed-proportional rectangular pulse for external speed monitoring of fan motor
- 2 pulses per revolution / 6 pulses per revolution with TURBOFANS.
- Open-Collector signal output
- Extremely wide operating voltage range (5 ... 60 V)
- Easy adaptation to user interface
- Connection via separate lead
- The sensor signal also serves as a major comparison variable for setting and maintaining the desired speed for interactive or controlled cooling with one or several interconnected fans.

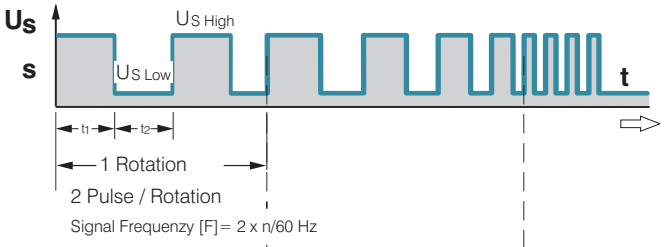
Electrical connection



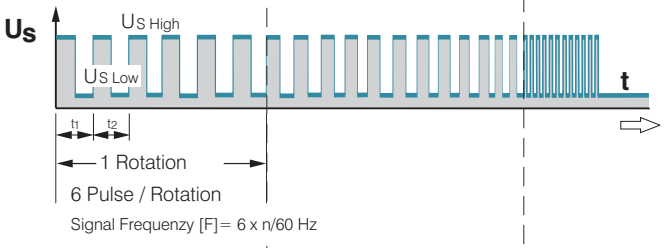
All voltages measured to ground.
External load resistance R_a / U_S / U_{BS} required.

Signal output voltage

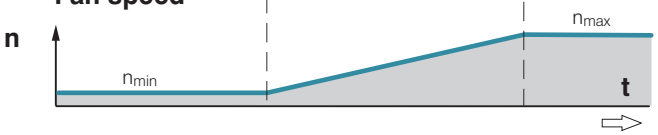
all modells except TD-Fans



only TD-Fans



Fan speed



Signal data	Sensor signal $U_{S\,Low}$	Condition: I_{sink}	Sensor signal $U_{S\,High}$	Condition: I_{source}	Sensor operating voltage U_{BS}	Perm. sink current $I_{sink\,max.}$
Type	**V DC**	**mA**	**V DC**	**mA**	**V DC**	**mA**
250	≤0.4	≤2	30	0	≤30	2
400 F	≤0.4	1	30	0	≤30	≤2
400	≤0.4	1	30	0	≤30	≤2
412 J	≤0.4	2	30	0	≤30	≤4
414 J	≤0.4	2	30	0	≤30	≤4
500 F	≤0.4	1	30	0	≤30	≤2
600 F	≤0.4	1	30	0	≤30	≤2
620	≤0.4	2	30	0	≤30	≤4
600 N	≤0.4	2	30	0	≤30	≤4
600 J	≤0.4	2	30	0	≤30	≤4
700 F	≤0.4	2	30	0	≤30	≤4
8400 N	≤0.4	2	28	0	≤28	≤4
8300	≤0.4	2	30	0	≤30	≤4
8200 J	≤0.4	2	30	0	≤30	≤4
3400 N	≤0.4	2	28	0	≤28	≤4
3300	≤0.4	2	30	0	≤30	≤4
3200 J	≤0.4	2	30	0	≤30	≤4
4400 F	≤0.4	2	30	0	≤30	≤4
4300 N	≤0.4	2	30	0	≤30	≤4
4300	≤0.4	2	30	0	≤30	≤4
4400	≤0.4	2	30	0	≤30	≤4
4212	≤0.4	2	30	0	≤30	≤4
4214	≤0.4	2	30	0	4–30	≤4
4218	≤0.4	2	30	0	4–30	≤4
4100 N	≤0.4	2	30	0	4–30	≤4
DV 4100	≤0.4	2	30	0	≤30	≤4
5200 N	≤0.4	2	30	0	4–30	≤4
DV 5200	≤0.4	2	30	0	≤30	≤4
5112 N	≤0.4	2	15	0	≤5	≤20
5114 N	≤0.4	2	60	0	≤60	≤20
5118 N	≤0.4	2	60	0	≤60	≤20
7112 N	≤0.4	2	60	0	≤60	≤20
7114 N	≤0.4	2	30	0	≤30	≤20
7118 N	≤0.4	2	60	0	≤60	≤20

Available on request:

– Galvanically separated sensor signal circuit
– Varying voltage potentials for power and logic circuit.

Signal data	Sensor signal $U_{S\,Low}$	Condition: I_{sink}	Sensor signal $U_{S\,High}$	Condition: I_{source}	Sensor operating voltage U_{BS}	Perm. sink current $I_{sink\,max.}$
Type	**V DC**	**mA**	**V DC**	**mA**	**V DC**	**mA**
6224 N	≤0.4	8	30	0	≤30	≤20
6248 N	≤0.4	8	60	0	≤30	≤20
DV 6200	≤0.4	2	30	0	≤60	≤20
6400	≤0.4	2	60	0	≤60	≤20
RL 48	≤0.4	2	28	0	4–30	≤4
RL 65	≤0.4	2	30	0	≤30	≤4
RL 90 N	≤0.4	2	30	0	≤30	≤4
RLF 100	≤0.4	2	30	0	≤30	≤4
RG 90 N	≤0.4	2	30	0	≤30	≤4
RG 125 N	≤0.4	2	30	0	≤30	≤4
RG 160 N	≤0.4	2	30	0	≤30	≤20
REF 100	≤0.4	2	30	0	≤30	≤4

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