

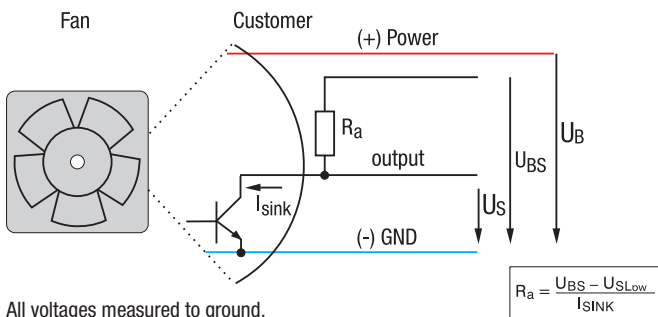
## Speed signal /2

- Speed-proportional, square-wave signal for external monitoring of the fan motor speed
- 2, 3, or 6 pulses per revolution
- Open-collector signal output
- Extremely wide operating voltage range
- Easy adaptation to user interface
- Connection via separate cable
- 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 more interconnected fans.

### Available on request:

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

### Electrical hookup



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

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

### Signal data

Type	Speed signal $U_{S\text{Low}}$ VDC	Condition: $I_{\text{sink}}$ mA	Speed signal $U_{S\text{High}}$ VDC	Condition: $I_{\text{source}}$ VDC	Admissible sink current $I_{\text{sink max}}$ mA	Pulses per revolution*
12 / 24 V	≤ 0.4	2	≤ 30	30	4	2
48 V	≤ 0.4	2	≤ 60	60	4	2

Subject to change

Standard value, can vary depending on fan series.

\* Depending on the fan electronics other values are feasible e. g. 3 or 6.

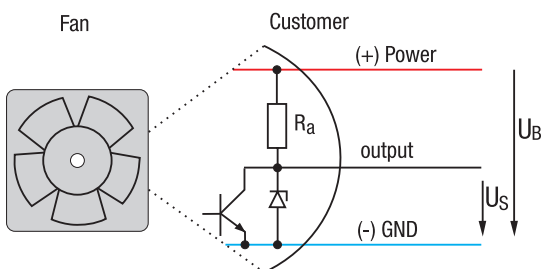
## Speed signal /12

- Speed-proportional, square-wave signal for external monitoring of the fan motor speed
- 2, 3, or 6 pulses per revolution
- TTL-compatible
- Integrated pull-up resistor
- Connection via separate cable
- 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 more interconnected fans.

### Available on request:

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

### Electrical hookup



All voltages measured to ground.

### Signal data

Type	Speed signal $U_{S\text{Low}}$ VDC	Condition: $I_{\text{sink}}$ mA	Speed signal $U_{S\text{High}}$ VDC	Condition: $I_{\text{source}}$ mA	Admissible sink current $I_{\text{sink max}}$ mA	Pulses per revolution*
12 / 24 / 48 V	≤ 0.4	1	2.5–5.5	1	1	2

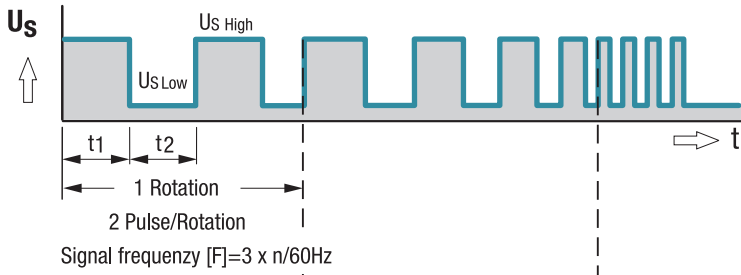
Subject to change

Standard value, can vary depending on fan series.

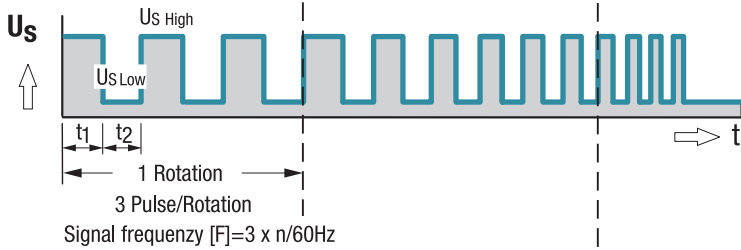
\* Depending on the fan electronics other values are feasible e. g. 3 or 6.

### Signal output voltage

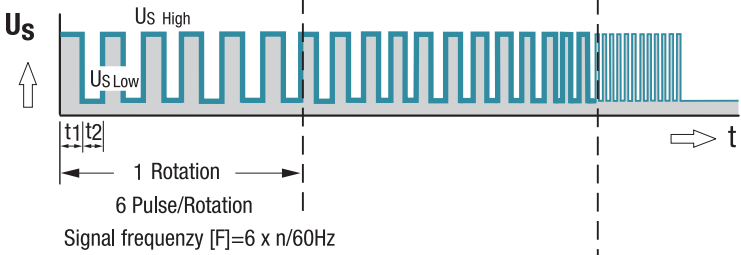
Standard signal for all models (exceptions see below)



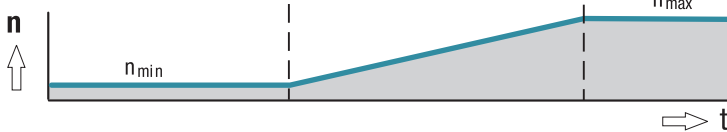
For multi option control input and 4100 NH7 and NH8



All TD Fans e.g. 6300 TD



### Fan speed



#### Note:

Fans that come with these fan specials could have variations with respect to the temperature range, voltage range, and power consumption compared to standard fans without specials.