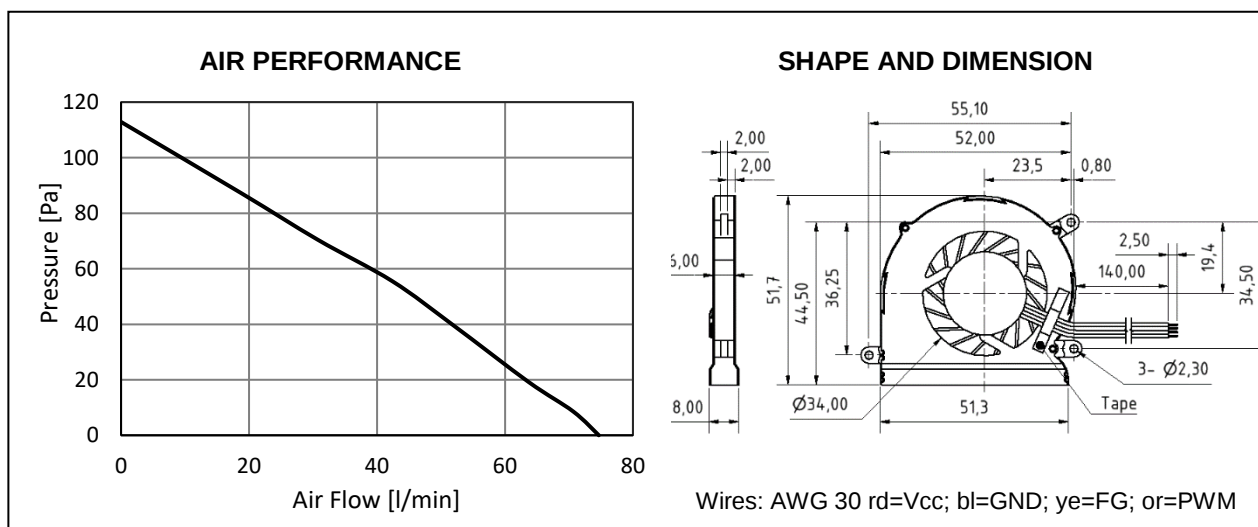


## HY52A05

### Eco Fan



## PERFORMANCE

| CE                                         |                             | HY52A05PSE25B         |
|--------------------------------------------|-----------------------------|-----------------------|
| Operating voltage                          | [VDC]                       | 4.5 ... 5 ... 5.5     |
| Typ. operating current                     | [mA]                        | 130                   |
| Max. start current                         | [mA]                        | 400                   |
| Max. air flow                              | [l/min – m <sup>3</sup> /h] | 75 – 4.5              |
| Max. pressure                              | [Pa – mmH <sub>2</sub> O]   | 113 – 11.5            |
| Typ. noise (1m dist. from air intake side) | [dB(A)]                     | 33                    |
| Typ. rotor speed                           | [min <sup>-1</sup> ]        | 5700                  |
| FG                                         | [Imp/rotation]              | 2                     |
| PWM-Input voltage                          | [VDC]                       | 2.5 ... Vcc           |
| Operating temperature                      | [°C]                        | -10 ... +60           |
| Life expectancy L10/MTBF@ 40°C             | [h]                         | 50000/400000          |
| Bearing system                             |                             | Magfix sleeve bearing |
| Weight                                     | [g]                         | 17                    |
| Packing unit                               | [St.]                       | 50-100-500            |

## HY52A05

### Eco Fan

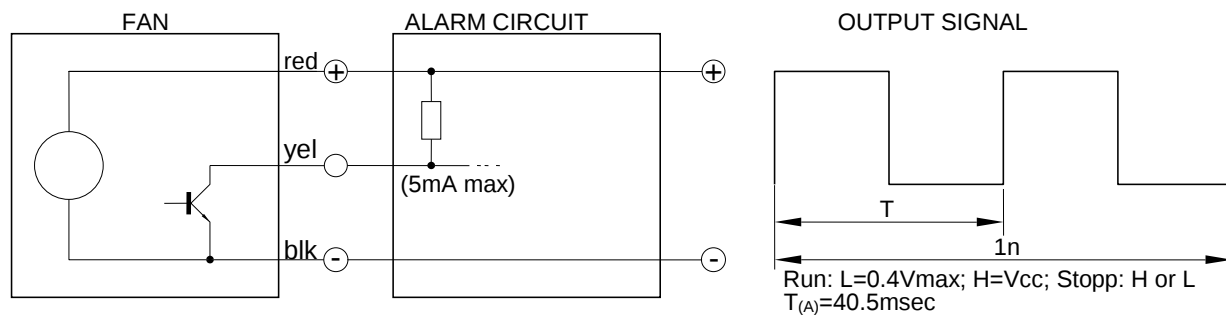


#### • ALARM SIGNAL

The **SEPA**® fan HY52A05PSE25B includes a pulse output which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave, the frequency correlates to 2x rotor speed. The amplitude is about 5Vss and appears periodically. At blocked rotor the output signal could be L ( $\leq 0,3V$ ) or H (5 V).

**IMPORTANT:** The pulse output is not protected against short circuit and must not connect to GND or Vcc without pre-resistor. A pull-up-resistor is not needed. Do not connect not used pulse output (insolate).



#### • PWM

The **SEPA**® fans HY52A05PSE25B includes a TTL compatible PWM control input:

- L=0...0.7 Vmax; H=2.5...Vcc
- f=23 kHz
- Pulse width modulation 30...100%
- Duty cycle minimum 35%
- If fan power supply is off, do not input control signals into the PWM terminal!

The fans HY52A05PSE25B have tinned lead wire ends (without connector).

Do not touch the rotor! Please note the handling specification!

#### • ACCESSORIES

Connector: on request

#### • ORDER INFORMATION

HY52A05PSE25B **SEPA**® Radial fan, 52x52x8mm, 5VDC, Magfix sleeve bearing, Tacho, PWM, CE 111111532

**SEPA**® is the brand name for fans and CPU cooler made by Nippon Keiki Works LTD., Tokyo