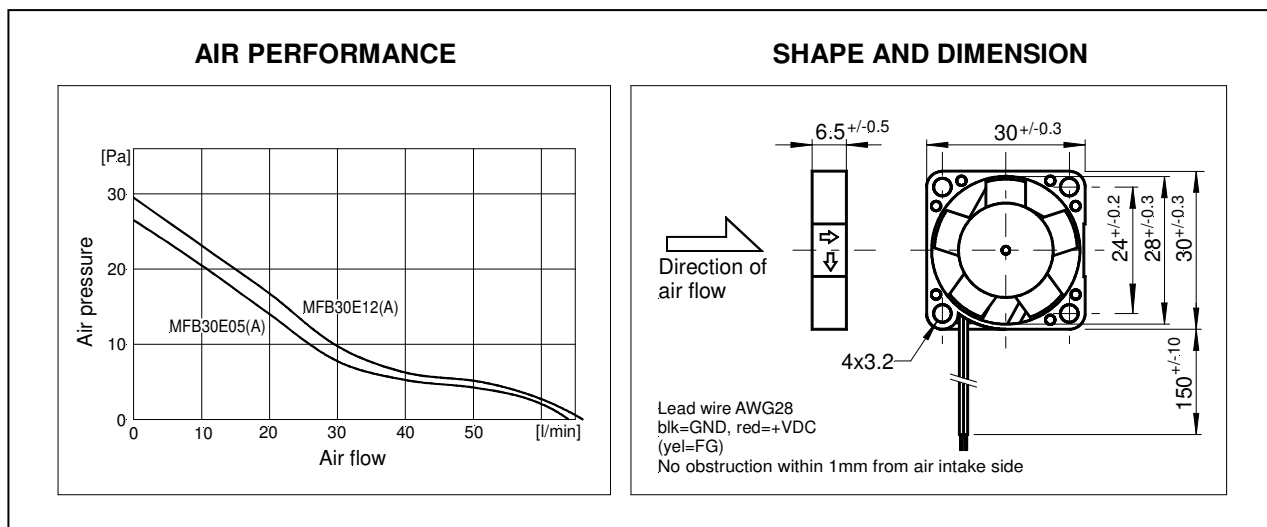


MFB30E Series
HIGH PERFORMANCE FAN



PERFORMANCE

CE		MFB30E05-003 MFB30E05A-004	MFB30E12-003 MFB30E12A-008
Operating voltage	[VDC]	4.5 ... 5 ... 5.5	10.2 ... 12 ... 13.8
Typ. operating current	[mA]	60	30
Max. start current	[mA]	130	70
Max. air flow	[l/min-m ³ /h]	64 – 3.8	67 – 4.0
Max. air pressure	[Pa-mmH ² O]	26.5 – 2.7	29.4 – 3.0
Typ. noise (1m from air intake side)	[dB(A)]	26	27
Typ. rotor speed	[RPM]	8600	9000
FG (...A)	[PPR]	3	
Operating temperature	[°C]	-40 ... +80	
Life expectancy L10/MTBF@40°C	[h]	70000/350000	
Bearing system		Ball bearings ZZ	
Weight	[g]	6	
Standard packing quantity	[Pc.]	50-100-500	

This **SEPA**[®] high-tech miniature fan is suitable for industrial or automotive use and has a remarkable air flow performance despite its small dimensions. Thanks to the extremely low power input, this fan is highly suitable for battery-operated devices. It is permanently protected electrically against reverse polarity, blocking and thermal overloading. Due to the low rotor weight and precision balancing, it is virtually vibration-free. It is also insensitive to shock.

Further features of this fan are its extremely robust and torsionally stiff plastic housing of PBT, ball bearings, polyester-based PCB and absolute reliability due to a 100% burn-in.

Technical changes without notice • 12/16

MFB30E Series HIGH PERFORMANCE FAN



• ALARM SIGNAL (Optional)

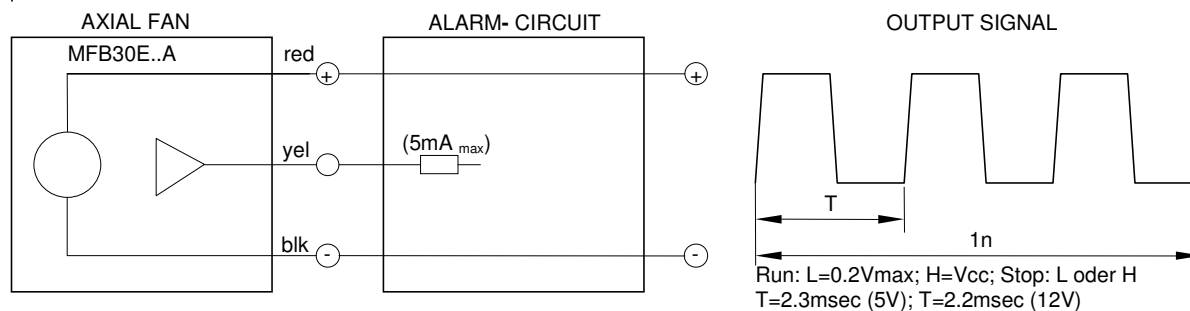
The **SEPA**® fans MFB30E..A include a pulse output, which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave, the frequency correlates to 3x rotor speed. The amplitude is 3.7Vpp and appears periodically. At blocked rotor the output signal could be L ($\leq 0,5V$) or H (3.7V).

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).

The fans MFB30E... have tinned lead wire ends (without connector).

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



• ACCESSORIES:

Connector: on request

• ORDER INFORMATION (Delivery time on request)

MFB30E05-003	SEPA ® Miniature fan, 30x30x6.5mm, 5VDC, ball bearings, CE	513051000
MFB30E05A-004	SEPA ® Miniature fan, 30x30x6.5mm, 5VDC, ball bearings, FG, CE	513051010
MFB30E12-003	SEPA ® Miniature fan, 30x30x6.5mm, 12VDC, ball bearings, CE	513052000
MFB30E12A-008	SEPA ® Miniature fan, 30x30x6.5mm, 12VDC, ball bearings, FG, CE	513052010

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

Technical changes without notice • 12/16