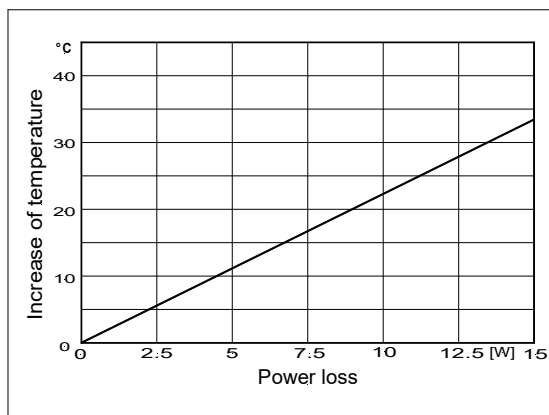


## HFB44B Series

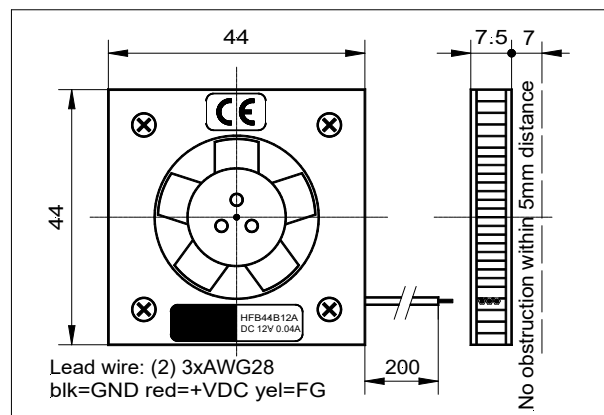
### ACTIVE COOLERS



#### COOLING PERFORMANCE



#### SHAPE AND DIMENSION



## PERFORMANCE

CE		HFB44B05A-002E	HFB44B12A-006
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
Typ. thermal resistance	[K/W]	2.2	
Typ. noise (1m from air intake side)	[dB(A)]	28	
Typ. rotor speed	[RPM]	8000	
FG (...A)	[PPR]	3	
Operating temperature	[°C]	-40 ... +80	
Motor protection		Impedance	
Life expectancy L10/MTBF@ 40°C	[h]	70000/550000	
Bearing system		Ball bearings ZZ	
Weight	[g]	7	
Standard packing quantity	[Pcs.]	50-100-500	

These frameless **SEPA**® high-tech miniature coolers are suitable for industrial or automotive use and have a remarkable air flow performance despite its small dimensions. Thanks to the extremely low power input, these coolers are highly suitable for battery-operated devices. They are permanently electrically protected against reverse polarity, blocking and thermal overloading. Due to the low rotor weight and precision balancing, they are virtually vibration-free. They are also insensitive to shock.

Further features of these coolers are the extremely robust and torsion stiffness, housing of Aluminum, ball bearing with narrow tolerances and of special steel, polyester-based PCB and absolute reliability.

## HFB44B Series

### ACTIVE COOLERS



#### • ALARM SIGNAL

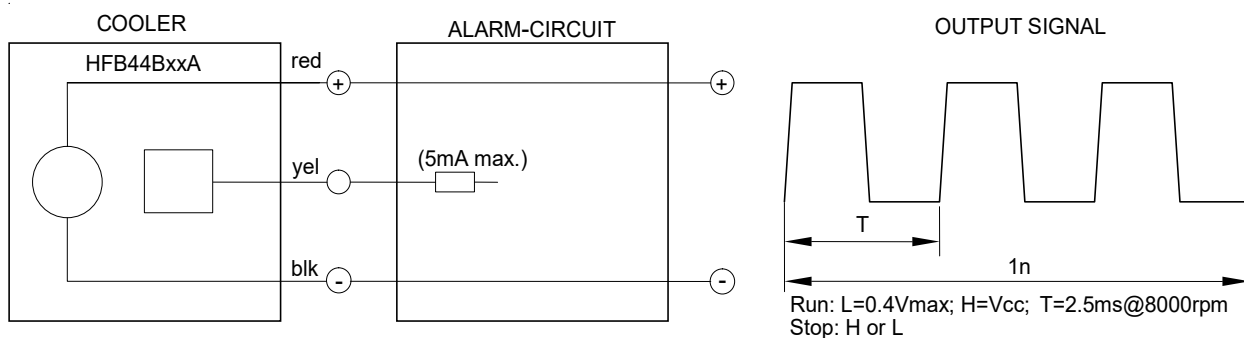
The **SEPA**® coolers HFB44B..A include a pulse output, which allows monitoring the correct function of the fan.

The pulse is like a rectangular wave. Three periods (3T) correspond to one rotation of the rotor. The amplitude appears periodically. At blocked rotor, the output signal could be L ( $\leq 0.4V$ ) or H (Vcc).

**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 coolers have tinned lead wire ends (without connector).

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



#### • ACCESSORIES:

Connector: on request  
 Mounting part: TCT42 or HERNON 746-SET

#### • ORDER INFORMATION (Delivery time on request)

HFB44B05A-002E	<b>SEPA</b> ® Chip-Cooler, 44x44x7.5mm, 5VDC, Ball-Bearing, FG, <b>CE, UL</b>	111111406
HFB44B12A-006	<b>SEPA</b> ® Chip-Cooler, 44x44x7.5mm, 12VDC, Ball-Bearing, FG, <b>CE, UL</b>	214422010