



HME 型轴位传感器 HME

— 车用系列

HME crankshaft position sensor

For vehicle

※ 概述: Profile

HME crankshaft position sensor is applied and designed for vehicles specially. Adopted international standard, our products are designed advanced with reliable parameter. It is able to detect the crankshaft position accurately. Combined with features including pure output waveform without any shaking, low temperature drift, reliability, long lifetime, it has excellent mechanical and operating functions. Applied for carburetor engine and EFI engine for vehicles, it can replace same kind products produced by HONEYWELL(USA), SIEMENS(German), MITSUBISHI (Japan).

HME 型轴位传感器 —— 车用系列, 针对汽车使用环境专门设计生产, 产品采用国际标准, 设计先进, 参数全面。它能准确地对转轴位置进行测量, 具有输出波形纯净、无瞬态抖动, 温漂低、可靠性高、寿命长等特点及杰出的机械和环境性能。适用于化油器式和电喷式汽油发动机的各种车型, 可以替代互换美国 HONEYWELL 公司、德国 SIEMENS 公司、日本 MITSUBISHI 公司等国外厂商的同类产品。

※工作原理: Operating principle

HME 型车用系列轴位传感器采用翼片式触发轮工作, 触发轮采用导磁金属。当触发轮翼片前沿进入传感器缝隙并接近传感器几何中心时, 传感器内部磁路被遮断, 输出由低电平跃变为高电平; 当触发轮翼片后沿离开传感器几何中心时, 传感器内部磁路闭合, 输出由高电平跃变为低电平。用户可根据需要选择翼片前沿或后沿作为检测位置沿。触发轮每转一周, 传感器输出方波数与触发轮翼片数完全对应。根据传感器的机械特性设计翼片宽度, 可以得到占空比符合设计要求的输出波形。

In operating status, HME crankshaft position sensor adopt blade time core which use magnetic conductive metal. When blade is approaching the geometric center of sensor through sensor gap, magnetic circuit in sensor is cut off, and the output level changes from low to high; when blade is leaving the geometric center of sensor, magnetic circuit in sensor is closed, and the output level changes from high to low. Customer could select front or back position of blade for detection location. When time core rotates one circle, output square waves are corresponding to time core blades. According to mechanical designed blade

width of sensors, duty ratio conform to the design requirement that output waveform is qualified.

※ 极限参数: Limit parameter

参数 parameter 型号 model	电源电压 (V) Power Voltage	最大负载电流 (mA) Max load current	工作温度范围 (°C) Operating temperature range
HME101	-1.2~25	40	-40~125
HME201	-30~30	40	-40~150
HME301	-30~30	40	-40~150
HME56	-30~30	40	-40~150
HME2000	-30~30	40	-40~150
HME401	-30~30	40	-40~125
HME402	-30~30	40	-40~150

※ 电气参数:

参数 parameter 型号 model	工作电压 (V) Operating Voltage	功耗 电流 (mA) power current	负载 电流 (mA) load current	输出 低电平 (V)Out put low level	输出 漏电流 (μ A) Leakage Current	输出上 升时间 (μ S) Output Rise Time	输出下 降时间 (μ S) Output Fall Time	输出 形式 output fo rm
HME101	4.5~24	≤ 9	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	NPN 极性, 集 电极 开 路输出 (OC 门)。 NPN polarity, Electrode opening output(OC)
HME201	4.5~24	≤ 9	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	
HME301	4.5~24	≤ 9	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	
HME56	4.5~24	≤ 9	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	
HME2000	4.5~24	≤ 9	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	
HME401	4.5~24	≤ 9	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	
HME402	4.0~24	≤ 16	25	≤ 0.4	≤ 10	≤ 2.0	≤ 2.0	

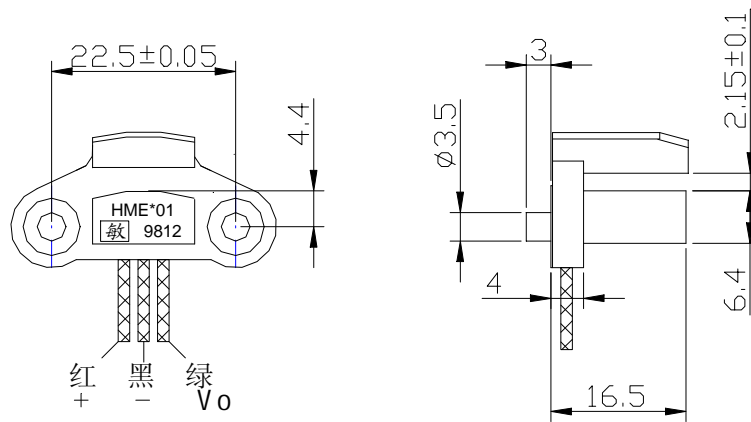
※ 机械参数:

参 数 型 号	导 通 距 离 De (mm)			截 止 距 离 Da (mm)			翼片下沿高度 h (mm) *	
	min	typ	max	min	typ	max	min	max
HME101	0.35	1.20	2.05	0.65	2.10	3.54	0.2	3.3
HME201	0.60	1.32	2.05	1.04	2.29	3.54	0.2	3.3
HME301	0.85	1.45	2.05	1.54	2.29	3.04	0.2	3.3
HME56	0.85	1.45	2.05	1.54	2.29	3.04	0.2	2.3
HME2000	0.85	1.45	2.05	1.54	2.29	3.04	0.2	2.3
HME401	0.35	1.20	2.05	0.65	2.10	3.54	0.2	5.5
HME402	0.50	1.15	1.80	0.80	1.65	2.50	0.2	0.8

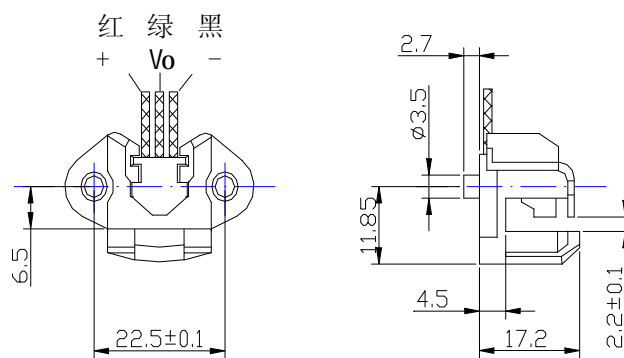
* 翼片下沿高度 h : 气隙底平面到翼片下沿的距离

※ 外形尺寸及接线方式 (mm): (引线和接线端长度可按用户要求规格提供)

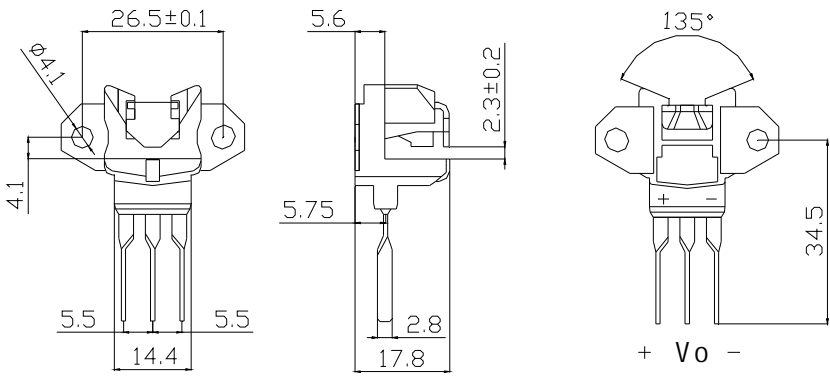
HME101.HME201.HME301



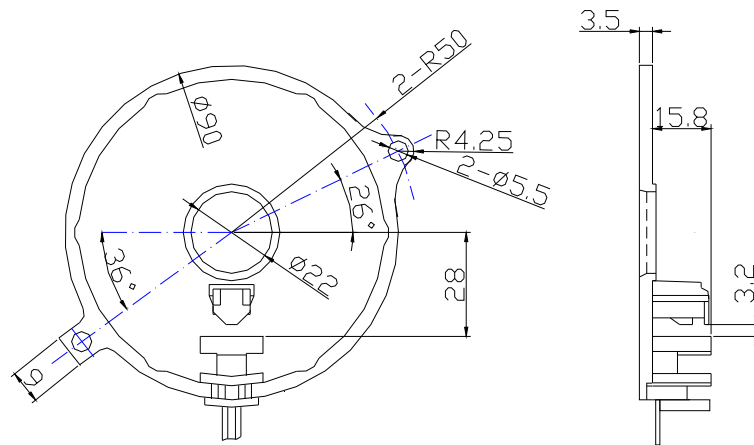
HME56



HME2000



HME401、



HME402、

