# Honeywell

## Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new Interactive Catalog. The Interactive Catalog is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



Click this icon to try the new Interactive Catalog.

#### **Sensing and Control**

Honeywell Inc. 11 West Spring Street Freeport, Illinois 61032

### **Solid State Sensors**

SR16/17 Hall Effect Vane Sensors

# SR 16/17 Series

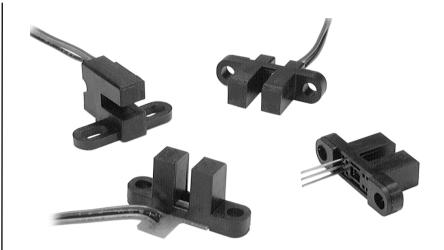
#### **FEATURES**

- Compact, robust packages
- Mechanically interchangeable with our standard optical style sensors
- Operated by a "Ferrous Vane" interrupter for pulse counting or position sensing
- Current sinking (Open Collector) output
- 3.8 to 30 VDC power supply
- Medium level magnetic switching to reduce stray field interference
- Internally sealed packages for moderate environment applications
- No mechanical contacts; eliminates product wear
- Noncontact position sensing

# AWARNING PERSONAL INJURY

 DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.



The SR16/17 Series Hall effect vane sensors, designed for position and speed sensing, offer side mount packages and three termination variations. The cost effective SR16/17 Series sensors are tailored for fitness and information technology applications. They are well suited for use in moderate electrical, chemical, and mechanical environments.

The SR16/17 Series sensors contain an internal magnet and Hall effect sensor mounted in a twin tower configuration. In application, a customer supplied ferrous target passes between the tower gap, interrupts the magnetic field, and switches the digital state of the sensor.

These robust solid state Hall effect sensors are housed in an environmentally sealed plastic package. The Hall effect sensors provide highly accurate and repeatable performance in environments in which dirt, dust, or stray IR light might affect the performance of optical solutions. The sensor package is constructed of rugged polyphthalamide and polycarbonate material and is mechanically interchangeable with our standard optical sensors.

#### AWARNING

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet is for reference only.
   Do not use this document as product installation information.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

### SR16/17 Hall Effect Vane Sensors

#### ELECTRICAL CHARACTERISTICS -20°C TO 85 °C, 3.8 TO 30 VDC

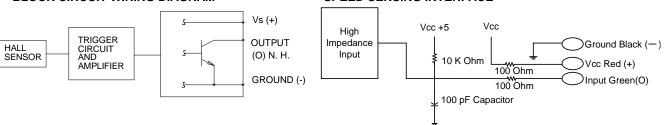
	Min.	Max.	Remarks
Supply voltage		3.8 to 30	VDC
Current consumption	_	9	mA (off) 10 mA (on)
Output voltage (operated)	_	0.40 V	Sinking 20 mA max.
Sink current (operated)	_	20	mA
Output leakage current (released)	_	10 μΑ	V <sub>OUT</sub> = 30 VDC, V <sub>CC</sub> = 24 VDC
Output switching time			
Rise, 10 to 90%	_	1.5 μs	$V_{CC} = 12 \text{ V}, R_L = 1.6 \text{ K}\Omega, C_L = 20 \text{ pF}$
Fall, 90 to 10%	_	1.5 μs	$V_{CC}$ = 12 V, $R_L$ = 1.6 K $\Omega$ , $C_L$ = 20 pF
Operating Temperature	-20°C to +85°C (-4°F to +185°F)		

#### **MECHANICAL CHARACTERISTICS**

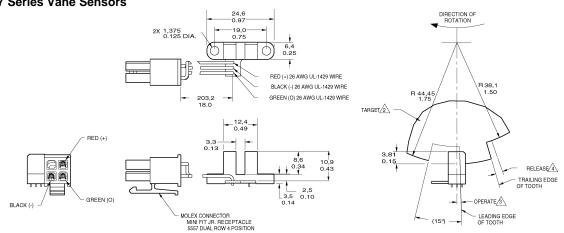
Operating Range 12 VDC @ 25°C				
	Operate	Release		
	1.5° ± 2.0°	$3.0^{\circ} \pm 2.5^{\circ}$		
CONDITIONS				
Target engagement distance 0.150 in to 0.300 in				
RPMs 0 to 5000				
Slot depth 0.250 in min.				

### **BLOCK CIRCUIT WIRING DIAGRAM**

#### SPEED SENSING INTERFACE



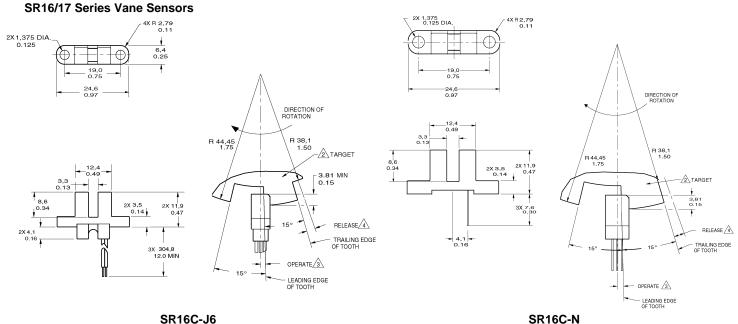
#### MOUNTING DIMENSIONS (for reference only) mm/in SR16/17 Series Vane Sensors



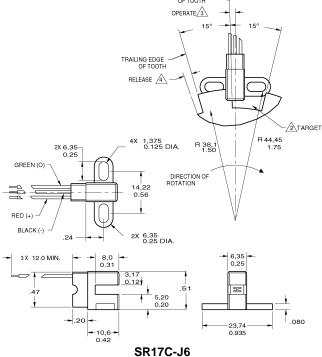
**SR16C-J4** 

### SR16/17 Hall Effect Vane Sensors

## MOUNTING DIMENSIONS (for reference only) mm/in



OPERATE/3



#### Notes:

- $Mounting \ specification: non-ferrous \ \#4 \ machine \ head \ screws \ with \ .25 \ OD \ washers \ torqued \ to \ 3-5 \ in-lbs.$
- Suggested target configuration, material: .045 low carbon steel, high permeability, low residual induction.
- Operate (degrees) is the angular distance from the leading edge of the tooth to the centerline of the sensor.
- 4. Release (degrees) is the angular distance from the trailing edge of the tooth to the centerline of the sensor.
- Operating specification is based on target shown.

### **Solid State Sensors**

### SR16/17 Hall Effect Vane Sensors

### SR16/17 Series

#### WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

For application assistance, current specifications, or name of the nearest Authorized
Distributor, contact a nearby sales office. Or call:
1-800-537-6945 USA
1-800-737-3360 Canada
1-815-235-6847 International
FAX

1-815-235-6545 USA

#### **INTERNET**

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Honeywell

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# 单击下面可查看定价,库存,交付和生命周期等信息

# >>Honeywell(霍尼韦尔)