



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

## **HLC1395-002**

**HLC1395 Series Infrared Reflective Sensor, Short Distance Detection, Transistor Output, Plastic Package**

### **Features**

- Side-looking plastic package
- Phototransistor output
- IR emitter and phototransistor detector in a single package
- Low profile for design flexibility
- Designed for short distance detection
- High sensitivity
- Unfocused for sensing diffused surfaces

### **Description**

The HLC1395 is a miniature infrared sensor designed to sense reflective objects at short distances. Both the GaAs IRED and the NPN phototransistor are mounted side-by-side in a single black plastic package with an integral barrier to minimize crosstalk. The sensor is configured with the IRED cathode and the phototransistor emitter connected to a common lead.

The housing consists of an opaque polysulfone outer shell with transfer-molded, IR-transmissive epoxy encapsulant. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol.



## **HLC1395-002**

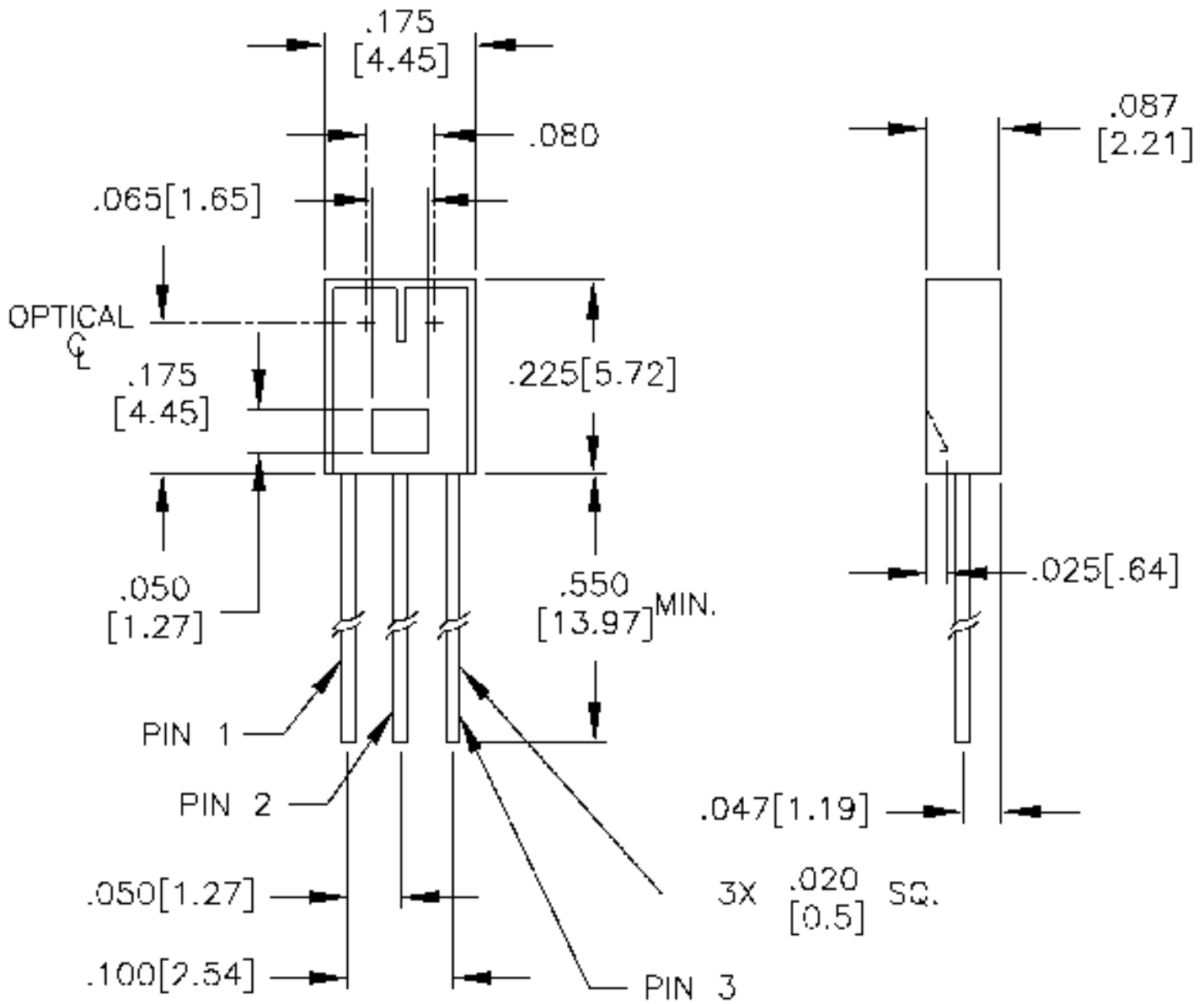
**HLC1395 Series Infrared Reflective Sensor, Short Distance Detection, Transistor Output, Plastic Package**

<b>Product Specifications</b>	
<b>Product Type</b>	IR Switch
<b>On-State Collector Current</b>	0.60 mA
<b>Output</b>	Transistor
<b>Package Components</b>	Plastic
<b>Forward Current</b>	10 mA
<b>Continuous Forward Current</b>	50 mA
<b>Forward Voltage</b>	1.6 V
<b>Reverse Breakdown Voltage</b>	3 V
<b>Reverse Current</b>	10 $\mu$ A
<b>Rise and Fall Time</b>	15 ns
<b>Power Dissipation</b>	100 mW
<b>Operating Temperature Range</b>	-40 °C to 85 °C [-40 °F to 185 °F]
<b>Dark Current</b>	100 nA
<b>Collector DC Current</b>	30 mA
<b>Collector-Emitter Breakdown Voltage</b>	30 V
<b>Emitter-Collector Breakdown Voltage</b>	5 V
<b>Collector-Emitter Saturation Voltage</b>	0.4 V
<b>Availability</b>	Global
<b>Product Name</b>	Reflective Sensor
<b>Optimum Point of Response</b>	1,02 mm [0.04 in]

# Honeywell

## HLC1395-002

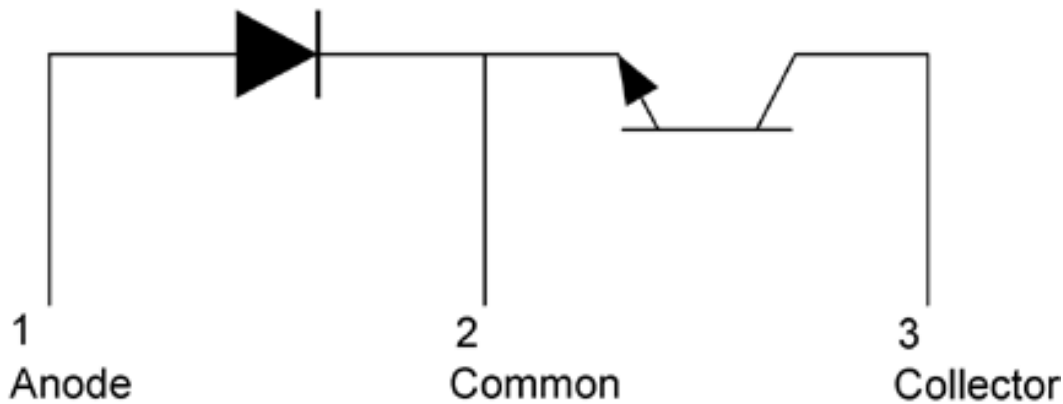
**HLC1395 Series Infrared Reflective Sensor, Short Distance Detection, Transistor Output, Plastic Package**



**Honeywell**

## HLC1395-002

**HLC1395 Series Infrared Reflective Sensor, Short Distance Detection, Transistor Output, Plastic Package**



**Honeywell**

## HLC1395-002

**HLC1395 Series Infrared Reflective Sensor, Short Distance Detection, Transistor Output, Plastic Package**

### **▲ WARNING**

#### **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.**

### **▲ WARNING**

#### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) 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.**