Ultrasonic Sensors
With Solid State Relay Output

Model: UT30UP-DSS5-1016-CSHT
Part Number: 7600-448-003

Model: UT30UP-DSS5-2032-CSHT
Part Number: 7600-448-004
Ultrasonic Sensors

with Isolated Solid State Relay Outputs

fitted with Range and Hysteresis Control

<table>
<thead>
<tr>
<th>Sensing range</th>
<th>UT30UP-DSSS-1016-CSHT</th>
<th>UT30UP-DSSS-2032-CSHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>101..1016 mm</td>
<td>20-30V DC reverse polarity protected</td>
<td>20-30V DC reverse polarity protected</td>
</tr>
<tr>
<td>(4-40&quot;)</td>
<td>50mA</td>
<td>50mA</td>
</tr>
<tr>
<td>212 KHz</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>30 mSec</td>
<td>Range and Hysteresis</td>
<td>Range and Hysteresis</td>
</tr>
<tr>
<td>2 Solid State Relays</td>
<td>UT30UP-DSSS-1016-CSHT</td>
<td>UT30UP-DSSS-2032-CSHT</td>
</tr>
</tbody>
</table>

Electrical data

<table>
<thead>
<tr>
<th>Part number</th>
<th>7600-448-003</th>
<th>7600-448-004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage range</td>
<td>0°C/+60°C / 32°F/140°F</td>
<td>0°C/+60°C / 32°F/140°F</td>
</tr>
<tr>
<td>Transducer frequency</td>
<td>IP 65/NEMA 12</td>
<td>IP 65/NEMA 12</td>
</tr>
<tr>
<td>Short circuit protected</td>
<td>PVC 4 x 22 gauge</td>
<td>PVC 4 x 22 gauge</td>
</tr>
<tr>
<td>Response time</td>
<td>0-95% non-condensing</td>
<td>0-95% non-condensing</td>
</tr>
<tr>
<td>Range control</td>
<td>104 mm 4.1&quot;</td>
<td>30mm 1.18&quot;</td>
</tr>
<tr>
<td>Mechanical data</td>
<td>Dimensions</td>
<td>Dimensions</td>
</tr>
</tbody>
</table>

| Degree of protection | IP 65/NEMA 12          | IP 65/NEMA 12          |
| Termination          | cable 2 m/6 ft.        | PVC 4 x 22 gauge       |
| Accessories          | Versions available to order | VERSIONS AVAILABLE TO ORDER |
| Humidity             | 0-95% non-condensing    | 1) Brackets for M 30 x 1.5 |

1) Brackets for M 30 x 1.5

Ordering Information

Plastic - BK5-D34PA
Part number 596-0223-041

Metal - M 30 ST
Part number 7430-448-003

Wiring Data

- 2 x Solid state relays N.O. / N. C.
- 160V AC or V DC 100mA continuous
- Short circuit protected
- 1500 volts RMS isolation

Output Specification

Adjustment Pots
Detection and Hysteresis Control

LED

P1

P2

Dimensions

104 mm 4.1"

30mm 1.18"
Ultrasonic Sensors

Operation and Set-Up

Proximity Sensing

Proximity detection is the detection of an object at a set distance. The sensing range is controlled by the “Range Control” potentiometer. Any object within the desired range is detected while objects beyond the set range are ignored. The sensing distance is dependent upon the sensor chosen, 40” or 80”.

In the proximity mode of operation, the hysteresis potentiometer must be turned to ‘off’ by turning the pot counterclockwise.

Hysteresis Control

The sensor is also fitted with a hysteresis control potentiometer. This control allows you to adjust the turn off point while the detection potentiometer sets the “turn on” point.

(Example: Range pot set for 10”, hysteresis pot set for 20”. With these settings the sensor will detect when the target reaches 10” and stays on as the target moves away to 20”. This hysteresis can be adjusted from .5” to 40” from the detect point with the 40” sensor and 1” to 80” with the 80” sensor.)
Sensors, Industrial Switches and Safety Technology Products

Warner Electric has many years of experience in applying sensors in motion control applications. Warner Electric’s broad range of innovative and technologically advanced product range offers our customers the exact solution to satisfy their sensing applications.

Our full product range is available through more than 800 distributor locations, throughout the United States, Canada and Mexico.

Local Sales Support is provided by a well trained sales force that is backed up by Application Engineering providing immediate technical support.

Non-Contact Sensors
Photoelectric Sensors
Ultrasonic Sensors
Inductive Proximity Sensors
Capacitive Sensors
Magnetic Sensors

Industrial Switches
Limit Switches
Foot Switches
Cable Pull Switches

Safety Technology Products
Safety Interlocks
Cable Pull Switches
Coded Magnetic Monitoring Systems

Approvals and Certification
Each model is individually identified with its own certification. Documentation is available upon request.

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