

RPS-300-T

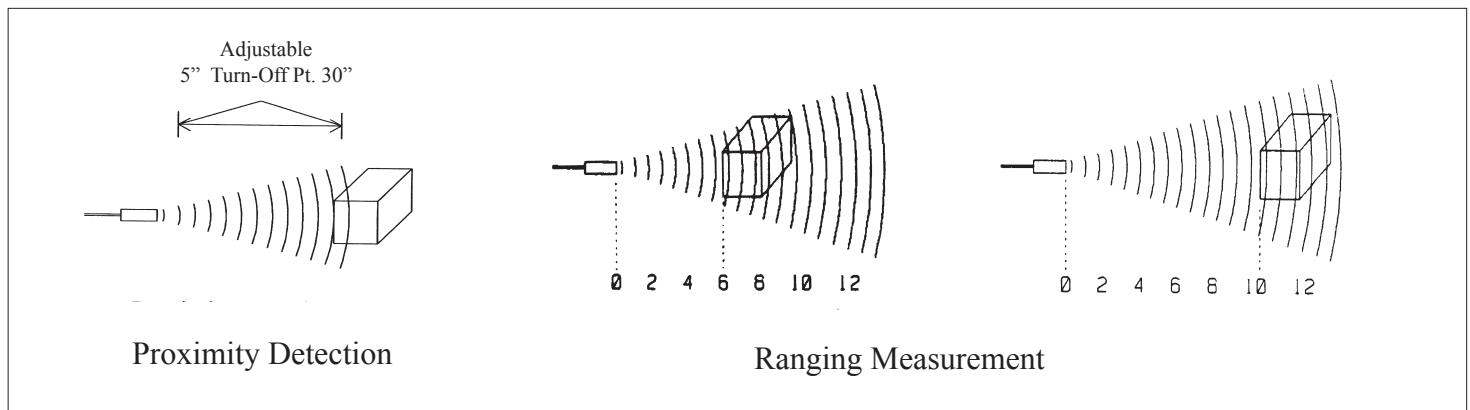
Features

- Various Sensing Ranges
- Narrow Sensing Beam
- High Frequency
- LED Indicator
- Sealed Transducer
- RPS-500 Compatible
- 3-Way Power Operation
- Isolated Form C Relay Output
- Small Electronic Controller
- Small Remote Transducer

ing and proximity modes provide the versatility of simple detection, or actual distance measuring. The isolated Form C relay furnishes N.O. and N.C. outputs, and with the addition of the RPS-500 card various analog outputs are supplied. The RPS-300-T sensor operates at a frequency of 180kHz. This sensor has a narrow sensing beam. Sensing ranges available for the RPS-300-T include 4 - 14" and 5 - 36". Mounting flanges, LED indicator, ranging potentiometer and 6 foot transducer cable are included. Optional cable lengths are available.



The RPS-300-T is a high frequency, sealed transducer unit best suited for environments where chemicals or weld splatter is a problem. The transducer head is constructed of a seamless Teflon body and sensing face. The remote transducer allows for mounting of the sensor head in cramped spaces while the controller is out of the way. The rang-



Proximity Detection

Proximity detection is the detection of an object in a given range. The detection range of the RPS-300-T is controlled by the "Range Control" potentiometer located on the front cover of the controller. Any object within the desired range is detected, while objects out of range are ignored. The detect point is independent of size, material, and reflectivity. The Proximity Option is denoted by the part number RPS-300-14-T.

Ranging Measurement

With the addition of the RPS-500 card, Analog outputs of 0 - 10V and 4 - 20mA are provided. Precise distances of an object moving to and from the transducer are measured via time intervals between transmitted and reflected bursts of ultrasonic sound. The example shows a target detected at 6" from the transducer and moving to 10". The distance change is continuously calculated and outputted. Ranging Option is indicated by following the part number with (-500). (Example: RPS-300-36-T-500)

