

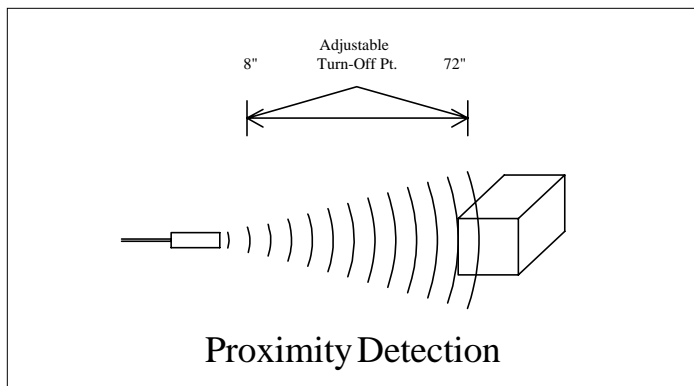


# RPS-322

## Features

- Range 8" to 72"
- Adjustable Delay Controls
- Narrow Sensing Beam
- 2 Multiplexed Transducers
- High Frequency - 150kHz
- LED Indicators
- 2-Way Power Operation
- Isolated Form C Relay Outputs
- Stainless Steel Housing
- Small Electronic Controller

The RPS-322 has 2 sealed stainless steel multiplexed transducers, independent range control adjustments, LED indicators, and form C relay outputs. The transducer head is constructed of 303 grade stainless steel with a 302 grade stainless steel sensing face, and is best suited for environments where dirt and moisture are a problem, as well as some chemical environments. This sensor also has a unique master and slave feature which enables many of the same units to be used within close proximity of one another without cross-talk interference. For example, if three sensors are needed in a close area, one sensor would be left as a master and the other two would be slaves. This is done



## Proximity Detection

Proximity detection is the detection of an object in a given range. The detection range of the RPS-322 is controlled by the "Range Control" potentiometers 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.



by means of the X IN, X OUT, and GND connection on the board. One sensor (master) would send a signal by means of the X OUT and GND terminals. These would be connected to the X IN and GND terminals of the other two sensors (slaves). With the sensors connected in this way, all units would be transmitting and receiving at the same time. This then would prevent cross-talk and enable all three sensors, or all six transducers to be used at the same time in close proximity of one another. There are also separate turn ON and turn OFF DELAY potentiometers provided for each transducer. All four DELAY controls are located along side the black module inside the enclosure box. The remote transducers allow for mounting of the sensor heads in cramped spaces while the controller is out of the way. The (2) independent and isolated form C relays furnish N.O. and N.C. outputs. This sensor operates at a frequency of 150kHz for the 72" range. This sensor has a narrow sensing beam. Mounting flanges, LED indicators, ranging potentiometers, and 6-ft. transducer cables are included. Optional cable lengths are available.

# Specifications:

Operational Range: Adjustable 8" to 72"

Power Input: 120VAC  
15 - 24VDC

Input Current: 40 Milliamps

Ambient Temperature: 0°C to 60°C or 32°F to 140°F

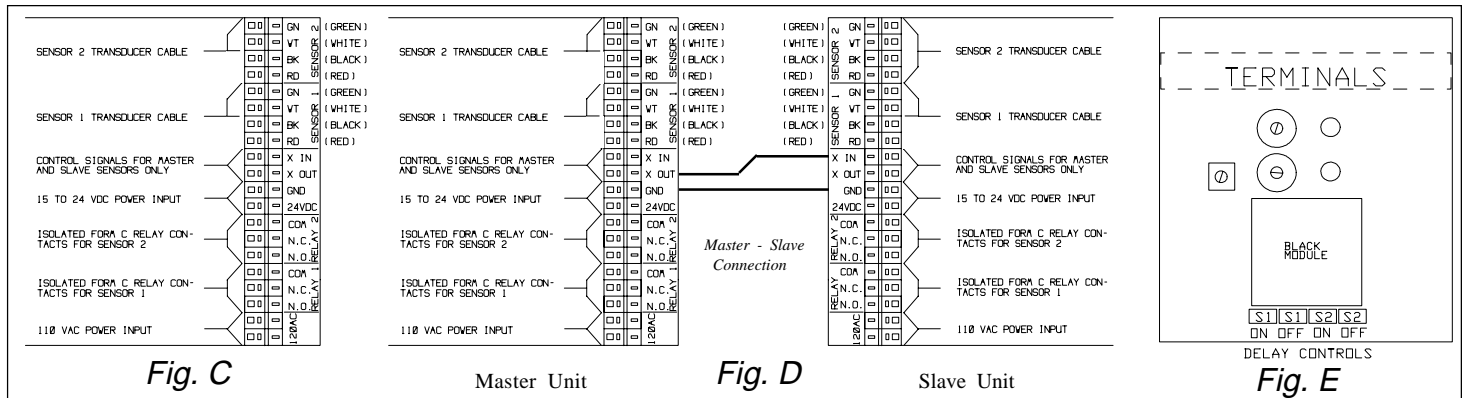
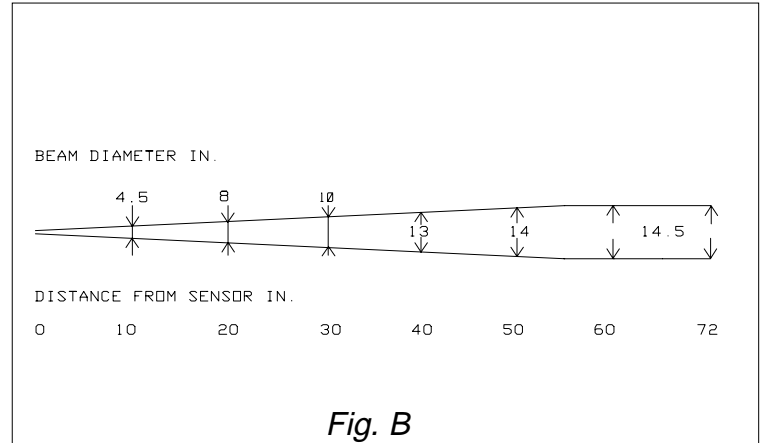
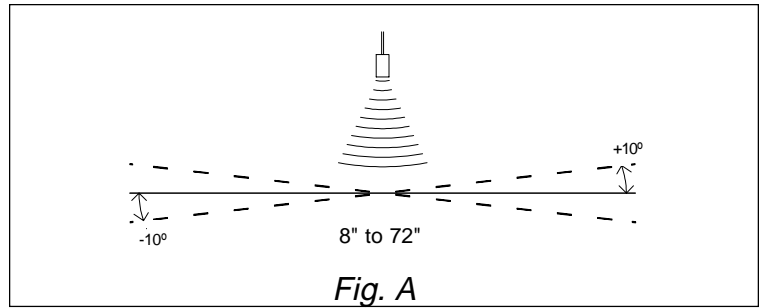
Enclosure Controller: Metal Enclosed  
Transducer Housing: 303 Grade Stainless Steel  
Transducer: 302 Grade Stainless Steel Sensing Face

Output: N.O., N.C. (one for each transducer) Isolated Form C Relay  
.5 Amp Maximum at 120VAC

Transducer Frequency: 150kHz

Adjustable Response Time: 8" to 72"  
On 60mS - 2S  
Off 60mS - 2S

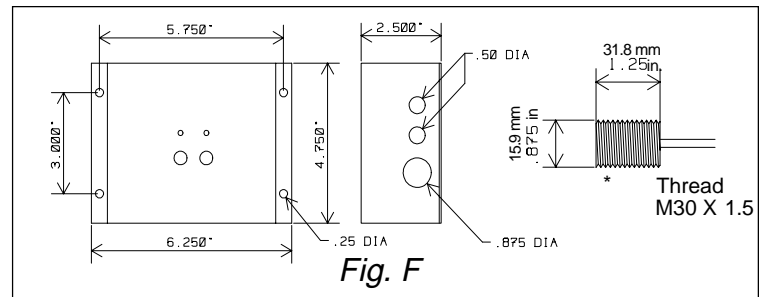
Weight of Controller: 34.2 ounces  
Weight of Each Transducer: 4.5 ounces



**Figure:**

- A - Angle of Tilt
- B - Beam Spread
- C - Wiring Diag.- For RPS-322
- D - Wiring Diag.- For Master - Slave configuration
- E - Delay Controls - For RPS-322
- F - Mounting Dimensions

\* Dimensions show one transducer. RPS-322 comes with (2) transducers.



PART NUMBER	RANGE	OUTPUT
RPS-322-72	8" - 72"	1 Isolated form C Relay for each Transducer