



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

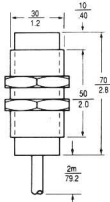
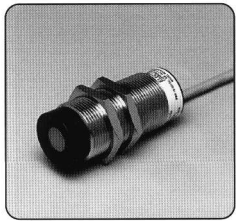
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PCUA SERIES PIEZOELECTRIC ANALOG OR SWITCHED OUTPUT ULTRASONIC SENSORS



- 30" (760 mm) Max. Range
- Metal Shell Versions Rated Intrinsically Safe by CSA for DIV 1, Class I, II, III Groups C, D, E, F, G

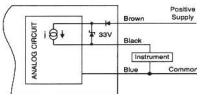
- Switched and Analog Versions Available
- Ordinary Location Certified – All PCUA's
- 215 KHz Burst Frequency

POWER REQUIREMENTS: 10 to 30 VDC @ 50 mA max.
SENSING RANGE: 4 to 30" (100 to 760 mm), Adjustable
BEAM ANGLE: 10° Cone (Typical)
WEIGHT: 9.0 oz. (255 gr.)

OPER. TEMP. RANGE: 32 to 122F (0 to 50C)
RESPONSE SPEED: 35 mS max.
ERROR: ± 1.5% max. @ Fixed Temperature
CABLE: PVC 3 Cond. 24 AWG with Shield

ANALOG UNITS

OUTPUT CIRCUIT CONFIGURATION
ANALOG OUTPUT CURRENT (AI) SOURCING UNITS

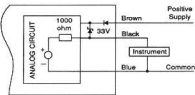


Type AI: 4 to 20 mA current source, 20 mA @ max. distance. Acceptable Load Resistance 0 to 300 ohms.

Non-Linearity: ± 1.5% of measured distance max. @ fixed temperature.

Error Due to Temperature Change: .1%/°F (.2%/°C) of measured distance (typical).

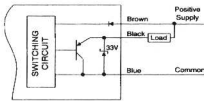
OUTPUT CIRCUIT CONFIGURATION
ANALOG OUTPUT VOLTAGE (AV) SOURCING UNITS



Type AV: 0 to 5 VDC voltage source, 5 VDC @ max. distance. Acceptable Load Resistance 50K Ω or Larger. Units have 1K ohm source impedance in series with instrument.

SWITCHED UNITS

OUTPUT CIRCUIT CONFIGURATION
DC SWITCHED OUTPUT SINKING (NA, NB) UNITS



Type NA, NB: Emitter follower current sink, 30 VDC @ 100 mA max. Will not switch TTL level inputs.

Hysteresis: 10% of set point typ.

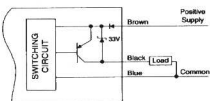
LED: Indicates target present.

Output: (Black lead) is not short circuit protected and must not be incorrectly connected.

Switch Point Repeatability: ± 1.5% of initial setting max. @ fixed temperature.

Error Due to Temperature Change: .1%/°F (.2%/°C) of initial setting (typical).

OUTPUT CIRCUIT CONFIGURATION
DC SWITCHED OUTPUT SOURCING (PA, PB) UNITS



Type PA, PB: Emitter follower current source, 30 VDC @ 100 mA max. Will switch TTL level inputs.

MODEL NUMBER CONFIGURATION

Series ①	Housing ②	Max. Sensing Range ③	Output Type ④
PCUA30	M = Nickel Plated Brass M30 x 1.5 6g Thread P = Nylon 6.6 Glass Filled M30 x 1.5 8g Thread	30 = 30"	NA = Sink, NO NB = Sink, NC PA = Source, NO PB = Source, NC AI = 4 - 20 mA, Source AV = 0 - 5 VDC, Source
			} Switched Outputs
			} Analog Outputs



ISO
9001

