

Ultrasonic Diffuse, Analogue and Digital Output Types UA30EAD.....TI



- Cylindrical M30 Stainless Steel INOX AISI 316L housing
- Sensing distance: 350-3500 mm
- Power supply: 12 (15) to 30 VDC
- Outputs: 0-10 VDC or 4-20 mA and one switching output NPN or PNP.
- Linearity error 1%
- Repeatability 1%
- Beam angle. $\pm 7^\circ$
- Protection: Short-circuit, reverse polarity and overvoltage
- Protection degree IP 67
- 2 m cable or M12 plug



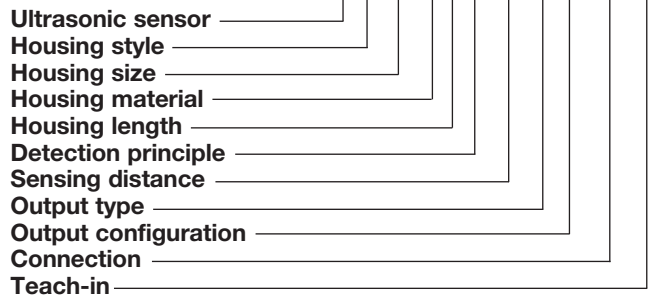
Product Description

A family of diffuse ultrasonic sensors in Stainless steel housing and with sensing range from 350-3500 mm with a resolution as low as 2.0 mm. The sensor contains both an analogue and a digital output. The output is either 0-10V or 4-20 mA and the digital output NPN or PNP, NO or NC which

forms a windows detection. The sensor is the ideal choice for distance measurement, level measurement, diameter measurement or loop control. Due to use of microprocessor control the digital filtering makes the sensor immune to most electromagnetic interferences.

Ordering Key

UA30EAD35NGM1TI



Type Selection

Housing diameter	Connection	Rated operating dist. (S _n)	Analog Output	Digital output NPN/PNP	Ordering no.
M30	Plug M12	350-3500 mm	4-20 mA	NPN	UA 30 EAD 35 NG M1 TI
M30	Cable	350-3500 mm	4-20 mA	NPN	UA 30 EAD 35 NG TI
M30	Plug M12	350-3500 mm	0-10 V	NPN	UA 30 EAD 35 NK M1 TI
M30	Cable	350-3500 mm	0-10 V	NPN	UA 30 EAD 35 NK TI
M30	Plug M12	350-3500 mm	4-20 mA	PNP	UA 30 EAD 35 PG M1 TI
M30	Cable	350-3500 mm	4-20 mA	PNP	UA 30 EAD 35 PG TI
M30	Plug M12	350-3500 mm	0-10 V	PNP	UA 30 EAD 35 PK M1 TI
M30	Cable	350-3500 mm	0-10 V	PNP	UA 30 EAD 35 PK TI

Specifications

Rated operating distance (S_n)	Reference target: 1 mm metal rolled finish, size 400 x 400 mm. 350 - 3500 mm	Rated operational voltage (U_B)	NG or PG versions: 12 to 30 VDC NK or PK versions: 15 to 30 VDC (ripple included)
Blind zone	≤ 350 mm	Ripple (U_{ripple})	≤ 5%
Repeatability	1%	No-load supply current (I_o)	50 mA @ U _B max
Linearity error	1%	Output current continuous digital output (I_o)	Max. load capacity 100 nF: 100 mA
Beam angle	±7°	Output current short-time digital output (I)	Max. load capacity 100 nF: 100 mA
Sensitivity		Minimum operational current digital output (I_m)	0.5 mA
Push-button	P1 (longest setpoint) P2 (shortest setpoint)	OFF-state current digital output (I_o)	10 µA
Resolution	2 mm		
Temperature drift	0.1%/°C @ -20° to +70° C		
Temperature compensation	Yes		
Hysteresis (H)	Min. 1%		