

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

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- Cylindrical M30 Stainless Steel INOX AISI 316L housing
- Sensing distance: 350-3500 mm
- Power supply: 12 to 30 VDC
- Outputs: Two multi function switching outputs. PNP or NPN
- Setup: Normal switching or adjustable hysteresis
- 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 self-contained multi function diffuse ultrasonic sensor in Stainless steel housing and with a sensing range of 350 to 3500 mm. 2 switching outputs - easily set up for two different output modes and adjusted by teach-in - makes it ideal for level control tasks in a wide variety of

vessels. A sturdy one-piece polyester housing provides the perfect packaging for the sophisticated microprocessor controlled and digitally filtered sensor electronics. Excellent EMC performance and precision are typical features of this sensor on true distance measurement.

Ordering Key

UA30EAD35NPM1TI

Ultrasonic sensor	_____
Housing style	_____
Housing size	_____
Housing material	_____
Housing length	_____
Detection principle	_____
Sensing distance	_____
Output type	_____
Output configuration	_____
Connection	_____
Teach-in	_____

Type Selection

Housing diameter	Conne- tion	Rated operating dist. (S _n)	Digital output NPN/PNP	Ordering no.
M30	Plug M12	350-3500 mm	2 x NPN	UA 30 EAD 35 NP M1 TI
M30	Cable	350-3500 mm	2 x NPN	UA 30 EAD 35 NP TI
M30	Plug M12	350-3500 mm	2 x PNP	UA 30 EAD 35 PP M1 TI
M30	Cable	350-3500 mm	2 x PNP	UA 30 EAD 35 PP TI

Specifications

Rated operating distance (S_n)	Reference target: 1 mm metal rolled finish, size 400 x 400 mm. 350 - 3500 mm	Output current continuous (I_e) Max. load capacity 100 nF UL508 specification	≤ 300 mA ≤ 100 mA
Blind zone	≤ 350 mm	Output current short-time (I) Max. load capacity 100 nF UL508 specification	≤ 300 mA ≤ 100 mA
Repeatability	1%	Minimum operational current (I_m)	≤ 0.5 mA
Beam angle	$\pm 7^\circ$	OFF-state current (I_o)	≤ 10 μ A
Adjustment Push-button	P1 (farthest setpoint) P2 (nearest setpoint)	Voltage drop (U_d)	≤ 2.2 VDC @ 100 mA
Temperature drift	$\leq 0.1\%/^\circ\text{C}$ @ -20° to $+70^\circ$ C	Protection	Short-circuit, overvoltage and reverse polarity
Temperature compensation	Yes	Carrier frequency	112 kHz
Hysteresis (H)	Min. 1%	Operating frequency (f)	≤ 2 Hz
Rated operational voltage (U_B)	12 to 30 VDC (ripple included)	Response time OFF-ON (t_{ON})	≤ 250 mS
Ripple (U_{rip})	$\leq 5\%$	Response time ON-OFF (t_{OFF})	≤ 250 mS
No-load supply current (I_o)	≤ 50 mA @ U _B max	Power ON delay	≤ 1500 mS