Reference: UA30CAD60PPTI

Selected parameters SYSTEM Sensor HOUSING M30 SENSING RANGE >3 m CONNECTION Cable OUTPUT 2 x PNP MATERIAL Plastic Others HOUSING M30 (Ø39) x 89.5 mm SENSING RANGE 6 m MATERIAL Thermoplastic polyester

Buy it at Electric Automation Network

Ultrasonic
Diffuse, 2 x Digital Output
Types UA30CAD60....TI
• Cylindrical M30 with Ø40 front and PBT housing
• Sensing distance: 350-6000 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. ±7°
• Protection: Short-circuit, reverse polarity and overvoltage
• Protection degree IP 67, Nema 4X
• 2 m cable or M12 plug
Product Description
Ordering Key UA30CAD60NPM1TI
A self-containedmultifunc- tion diffuse ultrasonic sensor with a sensing range of 350 to 6000 mm. 2 switching out- puts - easely 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 sophis- ticated microprocessor con- trolled and digitally filtered sensor electronics.Excellent EMC performanceandpre- cision are typical features of this sensor on true distance measurement.
Ultrasonic sensor Housing style Housing size Housing material Housing length
Detection principle Sensing distance Output type
Output configuration
Connection
Teach-in
Type Selection
Housing Connec-Rated operatingDigital outputOrdering no. diameter tiondist. (Sn)
NPN/PNP

M30 Plug M12 350-6000 mm 2 x NPNUA 30 CAD 60 NP M1 TI M30 Cable 350-6000 mm 2 x NPNUA 30 CAD 60 NP TI M30 Plug M12 350-6000 mm 2 x PNPUA 30 CAD 60 PP M1 TI M30 Cable 350-6000 mm 2 x PNPUA 30 CAD 60 PP TI

Specifications

Rated operating distance (Sn)Reference target: 1 mm metal rolled finish, size 200 x 200 mm.

350 - 6000 mm

Blind zone≤ 350 mm

Repeatability 1% Beam angle ±7˚ Adjustment

Push-buttonP1 (farthest setpoint)

P2 (nearest setpoint)

Temperature drift ≤ 0.1%/˚C @ -20˚ to +70˚ C

Temperature compensationYes Hysteresis (H)Min. 2% Rated operational voltage (UB) 12 to 30 VDC

Max. load capacity 100 nF≤ 300 mA UL508 specification≤ 100 mA

Output current short-time (I)

Max. load capacity 100 nF≤ 300 mA UL508 specification≤ 100 mA

Minimum operational

current(Im) ≤ 0.5 mA

OFF-state current (Ir)≤ 10 µA

Voltage drop (Ud)≤ 2.2 VDC @ 100 mA

ProtectionShort-circuit, overvoltage and reverse polarity

Carrier frequency 75 kHz Operating frequency (f)≤ 1 Hz Response time OFF-ON (tON)≤ 500 mS

(ripple included)

Response time ON-OFF (t

) ≤ 500 mS

Ripple (Urpp)≤ 5%

No-load supply current (Io)≤ 50 mA @ UB max

Output current continuous (Ie)

OFF

Power ON delay≤ 500 mS

Output function, open collector

By sensor type NPN or PNP

Specifications are subject to change without notice (03.12.2013) 1