

T30UUPAQ

► T30U SERIES 2 M RANGE PUMP CONTROL ULTRASONIC SENSOR



Analog/Discrete T30U Series: Proximity Mode
Range: 150 mm to 1 m; Input: 15-24V dc
Outputs: Discrete: PNP; Analog: 0 - 10V dc
Quick-Disconnect Connector
Part Number: 55987

CERTIFICATIONS



SPECIFICATIONS

Sensing Mode (General)	Proximity
Sensing Mode (Detailed)	Time of Flight
Housing Style	Barrel
Primary Housing Material	PBT
Input/Output	Analog & Discrete

Indicator	LED(s)
Analog Output Configuration	0-10 V dc
Analog Resolution/Discrete Repeatability	+/- 0.25% of measured distance (0.5 mm min)
Max Sensing Distance (mm)	1000
Minimum Sensing Distance (mm)	150
Sensing Beam	Ultrasonic
Power Supply	15-24 V dc
Adjustments	Teach Button
Temperature Effect (mm/°C)	0.2% of sensing distance/°C
Connection	Integral QD
QD Type/Cable Length	M12 (Euro) requires mating cordset
Number of Pins	5
Vibration	MIL-STD-202F req. Method 201A (vibration:10 to 60Hz max., double amplitude 0.06", max acc. 10G).
Mechanical Shock	IEC 60947-5-2 requirements: 30G 11 ms duration, half sine wave
Output Saturation Voltage PNP Outputs	< 1.0 V at 10 mA ; < 1.5 V at 100 mA
Analog Voltage Output Rating	1 kΩ min. load impedance
Max Discrete (Switched) Output (mA)	100
Discrete (Switched) Outputs	1 PNP
Output Protection	Protected against false pulse on power-up and continuous overload or short-circuit of outputs
IP Rating	IP67
NEMA Rating	NEMA 6P

Max Operating Temperature (°C)	70
Min Operating Temperature (°C)	-20
Max Op. Relative Humidity Non-Condensing (%)	100
Warm-up Time (minutes)	15
Minimum Response Time (ms)	48
Analog Linearity (mm)	+/- 0.5% of full-scale span
Barrel Diameter (mm)	30
Minimum Window Size (mm)	10
Remote Teach and Laser Control Input Impedance	55 kΩ
Discrete Output Hysteresis (mm)	2.5
Ultrasonic Frequency (kHz)	228
Max Off-state Leakage Current (µA)	10
Power/Current Consumption (exclusive of load)	90 mA
Supply Protection Circuitry	Protected against reverse polarity and transient overvoltages
Feature: Remote Teach	Yes
Feature: Clear Object Detection	Yes
Feature: Timing (Hold/Delay)	No
Feature: Chemical Resistant	No
Application: Ultrasonic	Yes
IO Link	No
RS-232	No
RS-422	No

RS-485	No
SSI	No
Wireless	No
1-wire Serial Interface	No
Profibus	No



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