

M18 ULTRASONIC SENSORS SPECIFICATIONS

TUBULAR



RIGHT ANGLE



OPERATING DISTANCE	30...300 mm	50...500 mm		
HOUSING TYPE	M18 Tubular	M18 Right Angle		
POWER SUPPLY	10...30 VDC	12...30 VDC		
RIPPLE	10% max.			
CURRENT CONSUMPTION	65 mA max.	25 mA max.		
OUTPUT CURRENT	100 mA max.			
OUTPUT SATURATION VOLTAGE	1.6 V max.	3 V max.		
OUTPUT	PNP and NPN / 0...10 V or 4...20 mA analog output	PNP or NPN		
DELAY AT POWERING	300 ms			
RESPONSE TIME	8 ms (NPN/PNP) / 2.5 ms (Analog out. FAST mode) / 30 ms (Analog out. SLOW mode)	15 ms		
SWITCHING FREQUENCY	62.5 Hz (NPN/PNP) / 200 Hz (Analog out. FAST mode) / 16 Hz (Analog out. SLOW mode)	32 Hz		
REPEATIBILITY	0.5 mm	0.7 mm		
INDICATORS	yellow/green (OUTPUT LED) / red (POWER LED)	red/green (RANGE LED) / yellow/red (OUTPUT LED)		
SETTING	Teach-in push-button or remote input			
ULTRASONIC EMISSION FREQUENCY	300 kHz			
MINIMUM DETECTION WINDOW	5 mm			
OPERATING TEMPERATURE	-25...+55 °C	-20...+60 °C		
VIBRATION	0.5 mm amplitude. 10 ... 55 Hz frequency. for every axis (EN60068-2-6)			
SHOCK RESISTANCE	11 ms (30 G) 6 shock for every axis (EN60068-2-27)			
HOUSING MATERIAL	Thermoplastic Polyester	ABS		
PROTECTION CLASS	IP67. NEMA 6-P rated			
CONNECTIONS	M12 5-pole connector	M12 4-pole connector		
PART NUMBERS				
	M12 connector, NPN and PNP	M18U-DS300S-4Q M18U-DA300S-4Q	M12 connector, PNP M12 connector, NPN	M18U-DR500P-4Q M18U-DR500N-4Q
	M12 connector, 4-20 mA Analog	M18U-DS300C-4Q M18U-DA300C-4Q		
	M12 connector, 0-10 V Analog	M18U-DS300V-4Q M18U-DA300V-4Q		

THE M18U SERIES IS THE BEST CHOICE FOR SENSING APPLICATIONS THAT NEED MORE RANGE THAN A CAPACITIVE SENSOR, AND ARE DIFFICULT TO DETECT WITH A PHOTOELECTRIC SUCH AS CLEAR OR SHINY OBJECTS, WOOD, PLASTICS, AND IRREGULARLY SHAPED TARGETS.



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