

M18 Head, Cubic Ultrasonic Sensor UQS Series

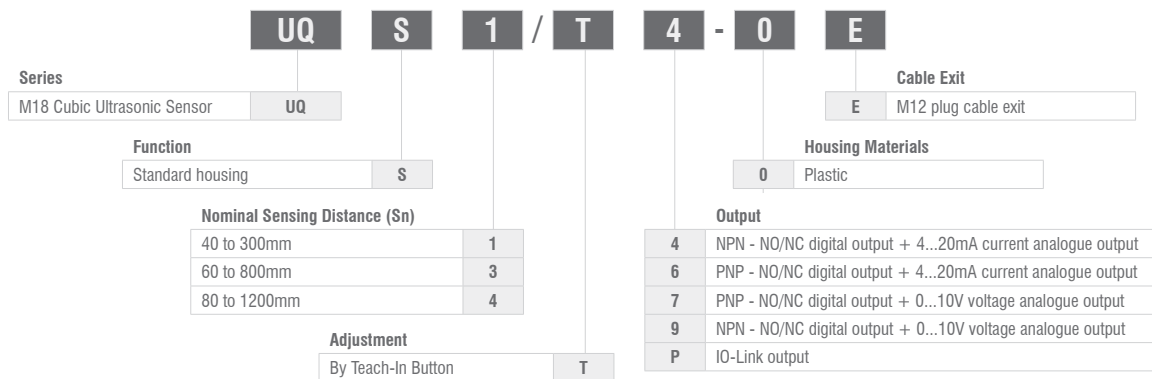


Key Features

- Digital and analogue output models available
- Teach-in button to easily adjust working area
- Complete protection against electrical damages
- Plastic housing M12 plug exit
- UL approved



Options & Ordering Codes



Available Models

Output	Distance (mm)	Adjusting	PNP + 4...20mA	NPN + 4...20mA	PNP + 0...10V	NPN + 0...10V
Direct Diffuse	300	Yes	UQS1/G6-0E	UQS1/G4-0E	UQS1/G7-0E	UQS1/G9-0E
	800		UQS3/G6-0E	UQS3/G4-0E	UQS3/G7-0E	UQS3/G9-0E
	1200		UQS4/G6-0E	UQS4/G4-0E	UQS4/G7-0E	UQS4/G9-0E

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Specifications

Models	UQS1	UQS3	UQS4
Nominal Sensing Distance	300mm* ¹	800mm* ²	1200mm* ²
Minimum Sensing Distance	40mm	60mm	80mm
Sensing Range	40 to 300mm	60 to 800mm	80 to 1200mm
Beam Angle	7° ± 2°	8° ± 2°	
Switching Frequency	8Hz	5Hz	3Hz
Hysteresis	1%		
Repeatability	1%		
Linearity Error	< 1%		
Temperature Range	-20°C to 70°C		
Temperature Compensation	•		
Temperature Drift of Sr	±5%		
Operating Voltage	10 to 30V		
Max. Ripple Content	5%		
Leakage Current	≤10μA @ 30VDC		
Output Voltage Drop	≤2.2V (@ IL = 100mA)		
No-Load Supply Current	≤35mA		
Output Current (Digital Output)	100mA		
Response Time Analogue Output	≤400ms		
Power On Delay (Digital Output)	≤400ms		
Short Circuit Protection	• (autoreset)		
Induction Protection	•		
Voltage Reversal Protection	•		
EMC	Confirming to EMC directive, according to EN 60947-5-2		
Weight	30g		
LEDs	Green: echo - yellow, output		
Protection Degree	IP67 (EN 60529)		
Housing Material	PBT or PA12		
Active Head Material	Epoxy Glass Resin		
Storage Temperature	-30°C to 80°C		

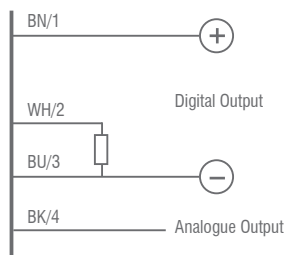
*¹ Metallic target 100 x 100mm

*² Metallic target 200 x 200mm

Electrical Connection Diagrams

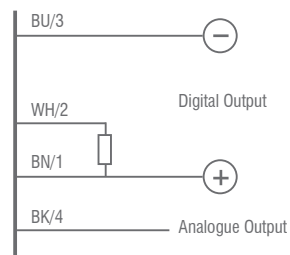
PNP NO/NC

models + analogue output



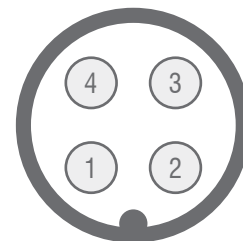
NPN NO/NC

models + analogue output



Connectors

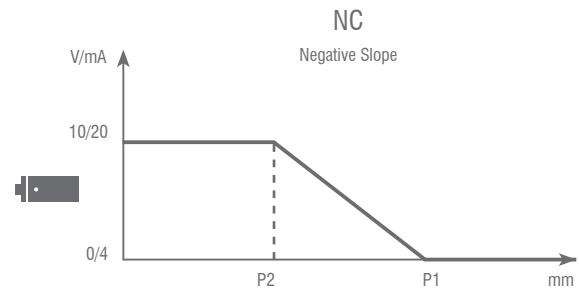
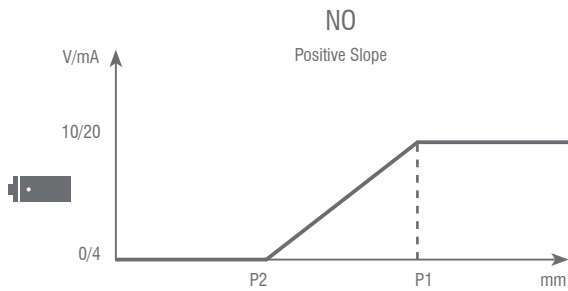
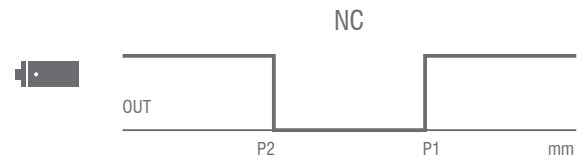
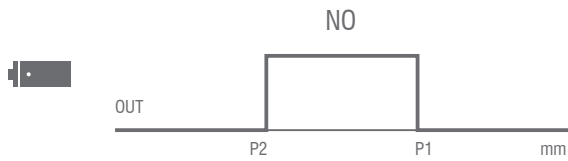
M12



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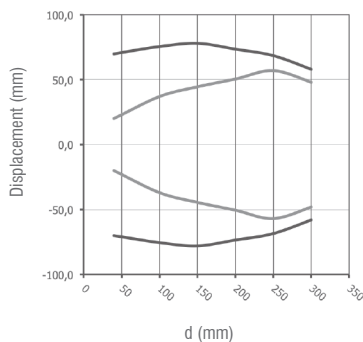


Available Outputs

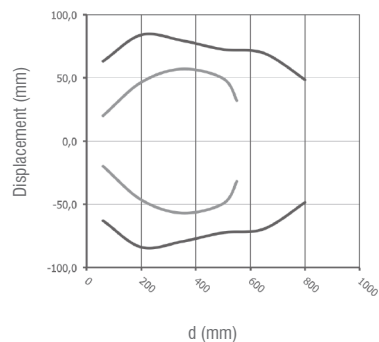


Response Diagrams

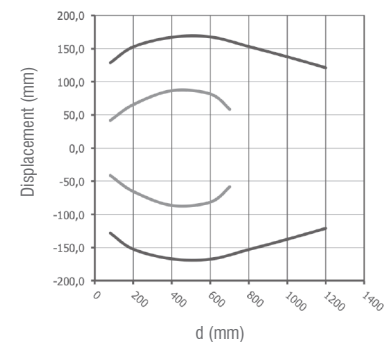
UQS1/**_**
Parallel Displacement



UQS3/**_**
Parallel Displacement



UQS4/**_**
Parallel Displacement



Dimensions (mm)

