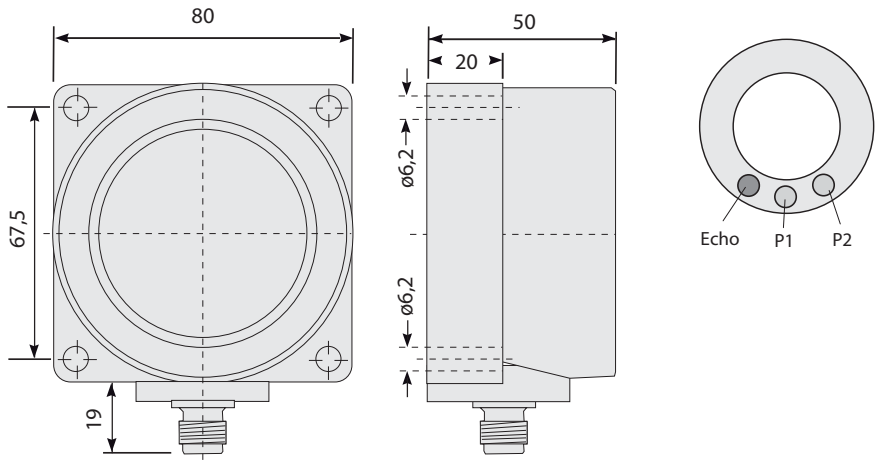
Series QU6

The ultrasonic sensors with analog output circuit are non-contact operating position switches, which react to the presence of objects in the monitored area. This is based on the evaluation of the sonic runtime. That is why they are used for the determination of distances or positions. Measuring ultrasonic sensors improve applications not only in the standard range, also in specific niches like reversing control on vehicles (e.g.: trucks, forklifts) through their positioning and measurement. Also in the filling level detection ultrasonic sensors are used because of their accuracy and reliability.

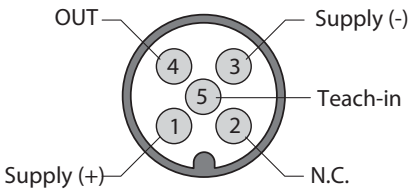
Technical Details

	QU6/D1-0E	QU6/D2-0E
General Data		
Sensorfunction	Measure	
Construction type	Cubic	
Connection type	M12 connector, 5-pin	
Display elements	LED – multifunction	
Temperature compensation	Yes	
Teach-in	External	
Measurement data		
Nominal measuring range	600 ~ 6000 mm	
Operating measuring range	600 ~ 6000 mm	
Blind zone	600 mm	
Beam Angle	± 8°	
Repeat accuracy	0.2 % ± 2 mm	
Linearity error	< 0.5 %	
Response time	700 ms	
Temperature drift	< 1 %	
Outputs		
Number of outputs	1	
Output circuit	Analog	
Voltage output	0 ~ 10 V	-
Current output	-	4 ~ 20 mA
Output current	< 5 mA	-
Time delay before availability	1000 ms	
Power supply		
Power supply	15 ~ 30 V DC	
No-load current	< 30 mA	
Short circuit protection	Yes	
Reverse polarity protection	Yes	
Ripple	< 10 %	
Voltage drop	2 V max. @ 100 mA	
Leakage current	< 10uA	
Physical characteristics		
Housing material	Plastic (polybutyleneterephthalate)	
Ingress protection	IP65	
Dimensions (W x H x D)	80 x 80 x 50 mm	
Environmental		
Operating temperature range	-20 ~ +70 °C	
Approvals		
EMC	EN 60947-5-7	

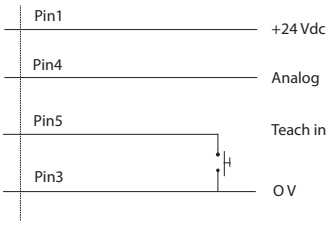
Dimensions (mm)



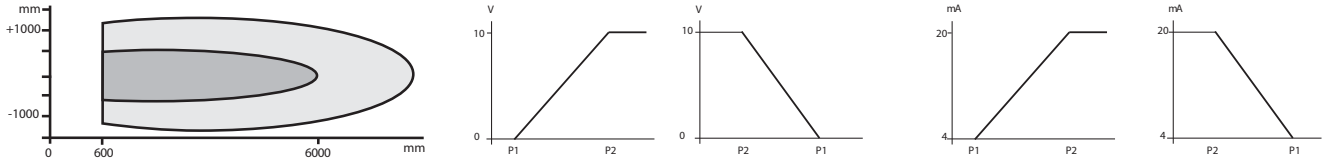
Connector



PNP NO/NC



Response time



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