



UQ1 series

Cubic Ultrasonic Sensor with M18 head



features

- Models with digital and analog output
- Models with IO-Link output
- Working area adjusting by Teach-in button
- Complete protection against electrical damages
- Plastic housing, M12 plug exit



Cubic Ultrasonic Sensor
with M18 head

web contents



- Application notes
- Photos
- Catalogue / Manuals



code description

series	UQ	M18 Ultrasonic Cubic Sensor	UQ	1	A	/	G	4	-	0	E	IO
function	1	Standard housing										
nominal sensing distance Sn	A	40...300 mm										
	C	60...800 mm										
	D	80...1.200 mm										
adjustment	G	Adjustment by Teach-In button										
output	4	NPN - NO/NC digital output + 4 ... 20 mA current analogue output										
	6	PNP - NO/NC digital output + 4 ... 20 mA current analogue output										
	7	PNP - NO/NC digital output + 0 ... 10 V voltage analogue output										
	9	NPN - NO/NC digital output + 0 ... 10 V voltage analogue output										
housing materials	P	IO-Link output										
cable exit / connector	0	Plastic housing										
IO-Link	E	M12 plug cable exit										
	IO	IO-Link models										



available models

digital + analog mixed outputs

output	distance (mm)	adjusting	PNP + 4...20 mA	NPN + 4...20 mA	PNP + 0...10 V	NPN + 0...10 V
direct diffuse	300	yes	UQ1A/G6-0E	UQ1A/G4-0E	UQ1A/G7-0E	UQ1A/G9-0E
	800		UQ1C/G6-0E	UQ1C/G4-0E	UQ1C/G7-0E	UQ1C/G9-0E
	1.200		UQ1D/G6-0E	UQ1D/G4-0E	UQ1D/G7-0E	UQ1D/G9-0E

available models

single digital output (IO-Link models)

output	distance (mm)	adjusting	IO-Link
direct diffuse	300	yes	UQ1A/GP-0EIO
	800		UQ1C/GP-0EIO
	1.200		UQ1D/GP-0EIO

technical specifications



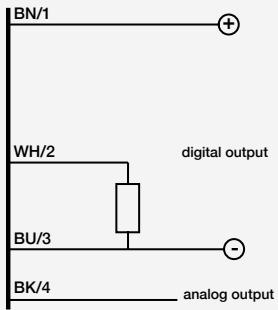
Cubic Ultrasonic Sensor
with M18 head

	UQ1A	UQ1C	UQ1D
nominal sensing distance	300 mm ⁽¹⁾	800 mm ⁽²⁾	1.200 mm ⁽²⁾
minimum sensing distance	40 mm	60 mm	80 mm
sensing range	40...300 mm	60...800 mm	80...1.200 mm
beam angle	7° ± 2°		8° ± 2°
switching frequency	8 Hz	5 Hz	3 Hz
hysteresis		1%	
repeatability		1%	
linearity error		< 1 %	
temperature range		- 20°...+70° C	
temperature compensation		●	
temperature drift of Sr		± 5%	
operating voltage		10...30 V	
max. ripple content		5%	
leakage current		≤ 10 µA @ 30 Vcc	
output voltage drop		≤ 2,2 V (@ IL = 100mA)	
no-load supply current		≤ 35 mA	
output current (digital output)		100 mA	
response time analogue output		≤ 400 ms	
power on delay (digital output)		≤ 400 ms	
short-circuit protection		● (autoreset)	
induction protection		●	
voltage reversal protection		●	
EMC	conforming to EMC Directive, according to EN 60947-5-2		
weight	30 g		
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...+ 80°		

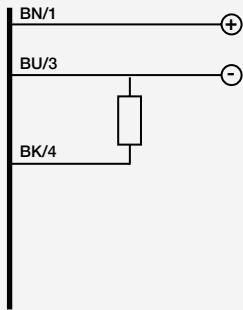
(1) Metallic target 100 x 100 mm (2) Metallic target 200 x 200

electrical diagrams of the connections

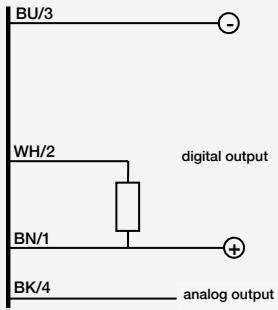
PNP NO/NC models +
analog output



IO-Link output models

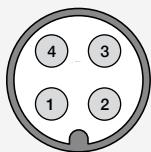


NPN NO/NC models +
analog output



connectors

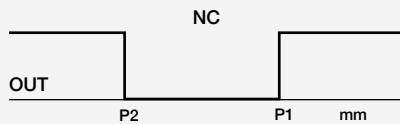
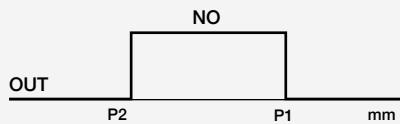
M12





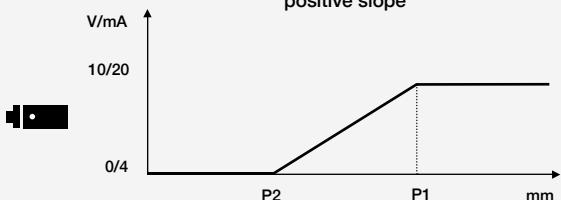
available outputs

UQ1*/**-**



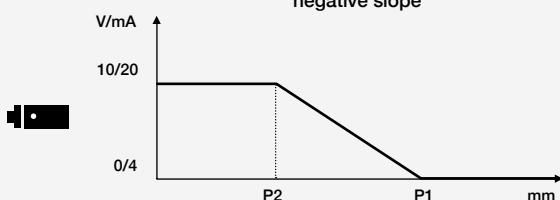
NO

positive slope



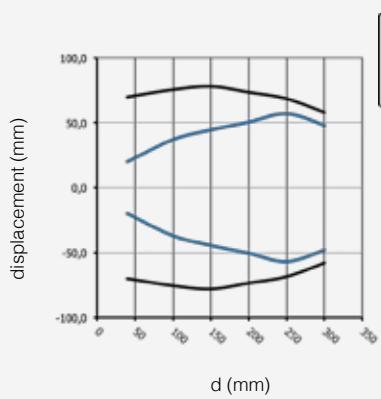
NC

negative slope

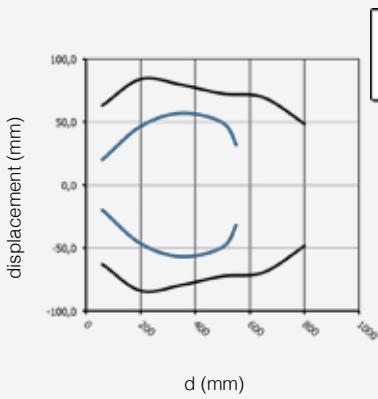


response diagrams

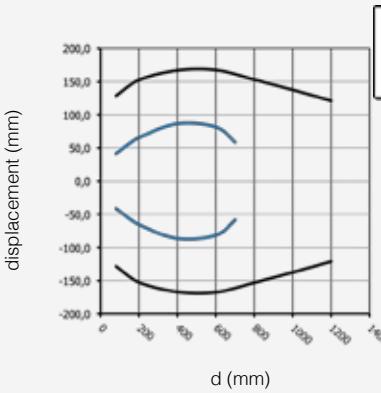
UQ1A/**-** parallel displacement



UQ1C/**-** parallel displacement



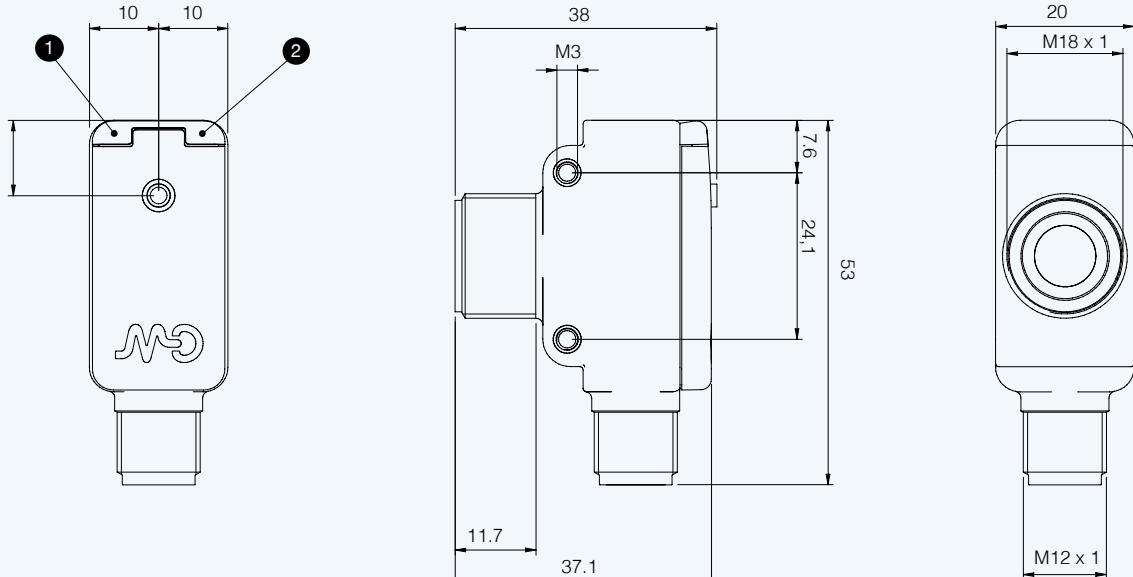
UQ1D/**-** parallel displacement





dimensions (mm)

UQ1*/** - **

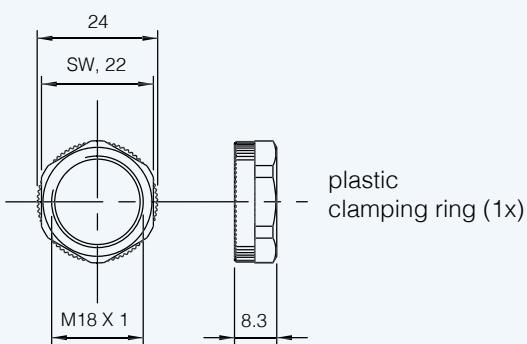


1 green LED

2 yellow LED

dimensions (mm)

included accessories



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