

# QG series

# Family overview Acceleration



Acceleration sensors																					rev1.1 20130729
Family	QG30 / QG40 E-series							QG40N							QG65 / QG76						
Measuring range (g)	±0,5	±1	±2	±4	±8	±12	±16	±0,5	±1	±2	±4	±8	±12	±16	±0,26	±0,5	±1	±1,7	±4	±8	±12
Max. # of axis	QG30: 1-axis / QG40: 2-axis							3							2						
Switching output	no							2x NPN / 2x PNP 100mA							2x NPN / 2x PNP 100mA						
Centering function	no							yes							yes						
Redundant	no							yes, optional, 1-axis, 4-20mA, BW = 10Hz only							no						
Output format	4-20mA / 0.5-4,5V							4-20mA / 0.5-4,5V / SPI / RS232							4-20mA / 0.5-4,5V / CANopen						
Output bandwidth (Hz)	100		500			1000		120							20		50	115	400		
Resolution	1 mg		4 mg			16 mg		1 mg		4 mg			16 mg		1mg		2mg	4mg	16mg		
Accuracy (typ.) (g)	0,02	0,04	0,08	0,15	0,3	0,5	0,8	0,01	0,02	0,04	0,08	0,15	0,25	0,4	0,003	0,005	0,01	0,04	0,08	0,15	0,25
	offset error excluded																				
Temp. coefficient (typ.) (mg/K)	0,2		0,6			1		1							0,1		0,6	0,8	1		
Housing material	Plastic PBTP black							Plastic PBTP black							Alu / Plastic / Stainless steel						
Size	QG30: 30x30x15 / QG40: 40x40x25mm							40x40x25mm							60x50x24mm / 60x50x27mm / 70x60x33mm						
Temp. range	-25 .. +85°C							-25 .. +85°C							-25 .. +85°C / -40 .. +85°C / -40 .. +85°						
Protection class	IP67							IP67							IP67						
Connection standard	PVC cable 2m							PUR cable 2m							M12 male 8p (CAN: M12 5p male & female)						
Options:	Different output formats, bandwidths, ranges, cables, connectors, positioning pins etc.																				