

Acceleration sensors										rev1.6 20200410	
Family	QG40			QG40N			QG65N	QG65N SIL2/PLd	QG76N	QG76N SIL2/PLd	
Measuring range (g)	±1.5	±4	±16	±1,5	±4	±16	±8		±8		
Number of axis	2-axis			3			3		3		
Zeroing function	no			yes			yes, CAN command		yes, CAN command		
Output format	4-20mA / 0.5-4,5V			4-20mA / 0.5-4,5V			CANopen	CANopen safety	CANopen	CANopen safety	
Functional safety	no			no			no	SIL2 / PLd	no	SIL2 / PLd	
Output bandwidth (Hz)	100	500	1000	50			1600		1600		
Resolution	1 mg	2 mg	4 mg	2 mg	4 mg	10 mg	16 mg		16 mg		
Accuracy (typ. @20°C) (g)	0.04	0.15	0.5	0.04	0.15	0.5	±1.5g: 0,04 ±4: 0,07 ±8 g: 0,1		±1.5g: 0,04 ±4: 0,07 ±8 g: 0,1		
	offset error excluded			after zeroing			after zeroing		after zeroing		
Temperature coefficient (typ.) (mg/K)	0.3	0.6	1	1			0.3		0.3		
Housing material	Plastic			Plastic			Reinforced plastic		Stainless steel		
Size	40x40x25mm			40x40x25mm			60x50x27mm		70x60x33mm		
Temperature range	-40 .. +80°C			-40 .. +80°C			-40 .. +80°C		-40 .. +80°C		
Protection class	IP67, IP69K			IP67, IP69K			IP67, IP69K pending		IP67 (IP68 with gland/cable), IP69K pending		
Certification	CE, UL			CE, UL			CE, UL		CE, UL		
Programmable	no			yes, with optional configurator			yes, via CAN object dictionary		yes, via CAN object dictionary		
Connection standard	M12 5-pole male			M12 5-pole male			M12 5p male & optional female		M12 5p male & optional female		
Optional	Range up to ±18 g bandwidth up to 2500 Hz			Range up to ±16g Omnidirectional							
	Different output formats (i.e. 0-10V), bandwidths, ranges, cables, connectors etc.										