QG series

Family overview Acceleration

Acceleration sensors

rev1.7 20210921

Family	QG40			QG40N			QG65N	QG65N SIL2/PLd	QG76N	QG76N SIL2/PLd
Measuring range (g)	Released			Released			Released		Released	
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		IP67, IP69K (IP68 with gland/cable)	
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.									

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