QG series Family overview Tilt + Acceleration switch

Tilt & Acceleration Switches								rev1.31 20230828
Family	**QG40N SIL1/PLc Acceleration**		**QG40N Tilt**		**QG40N SIL1/PLc Tilt**		**QG65/QG76 CM Tilt**	
Product Life cycle status	Released		Released		Released		Discontinued	
Switch points programmabe up to	7g		±80°	±170°	±80°	±170°	±25°	
Number of axis	2	3	2	1	2	1	2	
Mounting	horizontal	free mounting (omni)	horizontal	vertical	horizontal	vertical	horizontal	
Centering function	yes		yes		yes		yes	
Functional safety	SIL1/PLc		no		SIL1/PLc		no	
Output format	dual PNP		dual NPN / dual PNP		dual PNP		dual NPN / dual PNP	
Output current	200mA /output simultaneously		500mA /output simultaneously		200mA /output simultaneously		500mA /output simultaneously	
Output bandwidth	0 - 1600 Hz		0 - 0.5 Hz		0 - 0.5 Hz		0 - 0.5 Hz	
Resolution	0,01g		0,1°		0,1°		0,01°	
Accuracy (typ. @20°C)	0,05g		0,3°		0,3°		0,05°	
Temperature coefficient (typ.)	0,3 mg/K		0,08°/K		0,02°/K		0,005°/K	
Housing material	Plastic PBTP		Plastic PBTP		Plastic PBTP		QG65: Reinforced plastic with steel fiber QG76: Stainless steel	
Size	40x40x25mm		40x40x25mm		40x40x25mm		QG65: 60x50x27mm QG76: 70x60x33mm	
Temperature range	-40 . . +60°C		-40 . . +60°C		-40 . . +60°C		-40 . . +60°C	
Protection class	IP67, IP69K		IP67, IP69K		IP67, IP69K		QG65: IP67 QG76: IP67, IP69K (IP68 with gland/cable)	
Certification	CE, UL		CE, UL		CE, UL		QG65: CE, optional: UL QG76: CE, UL	
Programmable	Factory only		Yes, with optional configurator		Yes, with optional configurator		Factory programmable only	
Supply Votage	5 - 32V dc		6 - 30V dc		5 - 32V dc		8-30V dc	
Connection standard	M12 5-pole male		M12 5-pole male		M12 5-pole male		M12 8p male	
Options:	Different output formats, bandwidths, ranges, cables, connectors etc.							

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