

Absolute & Incremental rotary encoders													rev1.1 20131016		
Family	QR30					QR30N			QR40						
Type	absolute				incremental A/B-pulse		absolute			absolute					
Style	external magnet, no shaft					external magnet, no shaft			shaft, internal magnet						
Magnet placing	potting side					nose-side			internal						
Magnet distance to sensor	0,5 - 3 mm					0,5 - 3 mm			internal						
Centering function	no					no			yes						
Measuring range	90°	180°	360°	360° (slow)		360°		90°	180°	360°	90°	180°	360°		
Output format	0-5V		0-5V / PWM		A/B pulse push pull		4-20mA / 0-5V			4-20mA / 0-5V / PWM					
Output response time	10 ms		100ms		< 15.000 rpm		4 ms			10 ms					
Resolution	10 bit (step 0,35°) / 12 bit (step 0,09°)				32/64/128/256/1024 PPR		12 bit (step 0,09°)			12 bit (step 0,09°)					
Non linearity	< ± 1,4°						< ±1°			< ± 1,4°					
Repeatablity	0,47° / 0,12°						0,12°			0,12°					
Housing material	Plastic PBTP black					Plastic PBTP black			Plastic PBTP black						
Size	30x30x15mm					30x30x15mm			40x40x22mm						
Temp. range	-25 . . +85°C					-25 . . +85°C			-25 . . +85°C						
Protection class	IP67					IP67			IP66						
Connection standard	PVC cable 2m					PVC cable 2m			PVC cable 2m						
Options:	Different output formats, measuring ranges, cables, connectors etc.														