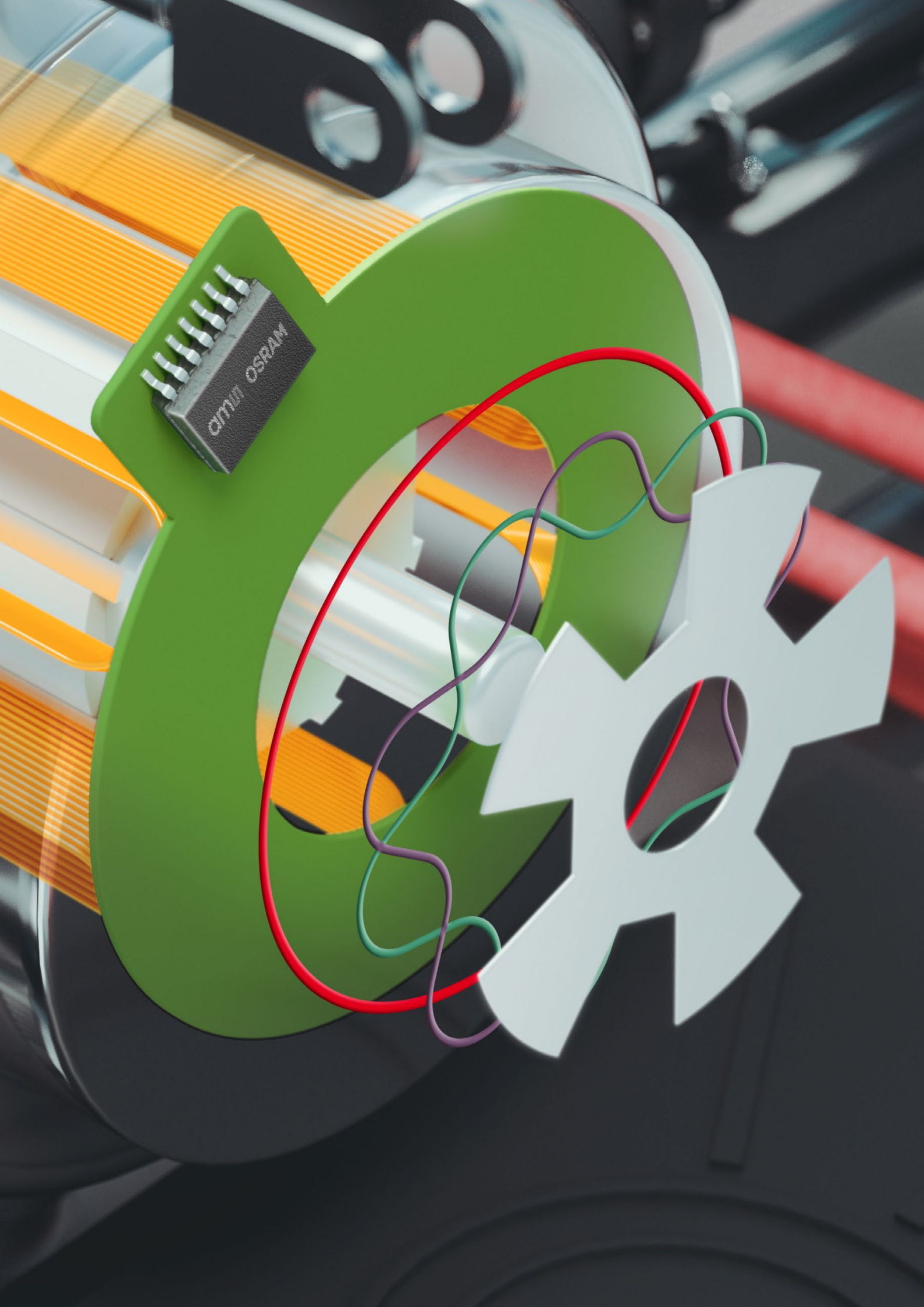




Selection Guide Position Sensors

For Automotive Applications

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Automotive Product Selection Guide

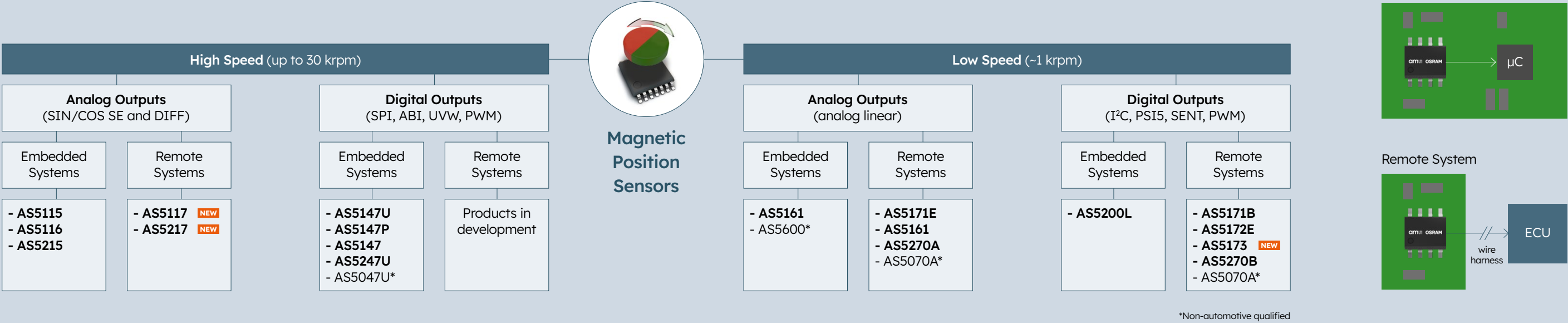
Part number	Package	Status	Longevity**	Motion			Magnetic Range, mT			Supply voltage	Max. Current I _{dd}	Operating Temperature Range	Output										DAEC™	ASIL	Stray Field Immunity	AECQ-100	Sensing type	Recommended configuration	Low Power Mode
				On-axis	Off-axis	Linear	Min	Max	EFR*				Analog (SIN/COS)	Analog (Linear)	SENT	I ² C	SPI	ABI	UVW	PWM	PSI5	Resolution							
AS5116	SOIC-8	Production	✓	✓			10	100		3.3 or 5	17	-40 to +150	✓									N/A		C	✓	✓	Magnetic (Hall-based)	Embedded	
AS5215	MLF-32	Production		✓			20	80		4.5 to 5.5	28	-40 to +150	✓									N/A		N/A	✓	✓	Magnetic (Hall-based)	Embedded	
AS5147	TSSOP-14	Production	✓	✓			35	70		3.3 or 5	15	-40 to +150					✓	✓	✓	✓		14	✓	B	✓	✓	Magnetic (Hall-based)	Embedded	
AS5147P	TSSOP-14	Production	✓	✓			35	70		3.3 or 5	15	-40 to +150					✓	✓	✓	✓		12	✓	B	✓	✓	Magnetic (Hall-based)	Embedded	
AS5147U	TSSOP-14	Production	✓	✓			35	70	25-70	3.3 or 5	15	-40 to +150					✓	✓	✓	✓		14	✓	C	✓	✓	Magnetic (Hall-based)	Embedded	
AS5247	MLF-40	Production	✓	✓			35	70		3.3 or 5	30	-40 to +150					✓	✓	✓	✓		14	✓	D	✓	✓	Magnetic (Hall-based)	Embedded	
AS5247U	TQFP-32	Production	✓	✓			35	70	25-70	3.3 or 5	30	-40 to +150					✓	✓	✓	✓		14	✓	D	✓	✓	Magnetic (Hall-based)	Embedded	
AS5171A	SIP	Production	✓	✓			30	70	10 - 90	5	12	-40 to +150		✓								N/A		B	✓	✓	Magnetic (Hall-based)	Remote	
AS5171B	SIP	Production	✓	✓			30	70	10 - 90	5	10	-40 to +150			✓					✓		12		B	✓	✓	Magnetic (Hall-based)	Embedded	
AS5171E	SIP	Production	✓	✓			30	70	10 - 90	5	12	-40 to +150		✓								12		B	✓	✓	Magnetic (Hall-based)	Remote	
AS5172B	TSSOP-14	Production	✓	✓			30	70	10 - 90	4 to 12	15	-40 to +150									✓	12 and 14		B	✓	✓	Magnetic (Hall-based)	Remote	
AS5172F	SIP	Production	✓	✓			30	70	10 - 90	4 to 12	15	-40 to +125									✓	12 and 14		B	✓	✓	Magnetic (Hall-based)	Remote	
AS5270A	MLF-16	Production	✓	✓			30	70	10 - 90	5	24	-40 to +150		✓								12		C	✓	✓	Magnetic (Hall-based)	Remote	
AS5270B	MLF-16	Production	✓	✓			30	70	10 - 90	5	24	-40 to +150			✓					✓		12		C	✓	✓	Magnetic (Hall-based)	Remote	
AS5200L	MLF-16	Production	✓	✓			30	90	10 - 90	3.3 or 5	14	-40 to +125				✓				✓		12		B	✓	✓	Magnetic (Hall-based)	Embedded	✓
AS5715A	TSSOP-14	Production	✓	✓	✓	✓	N/A	N/A	N/A	5	10	-40 to +160	✓			✓						N/A		C	✓	✓	Inductive	Remote	
AS5715R	TSSOP-14	Production	✓	✓	✓	✓	N/A	N/A	N/A	5	10	-40 to +160	✓			✓						N/A		C	✓	✓	Inductive	Remote	

*Extended Field Range
**Longevity guaranteed until 2031

Package



Configuration



Motion

