

TECHNICAL DATA

Linear encoders LE

Alias	Model	Accuracy	Resolution	Recommended meas. step	Index position	Signals	Signal output, (quadrature) channels
		µm	µm	µm			
AE-060	RGS-S+RGH24Z	±1	0.2	0.2	in the middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-010	LIA-20 RS422	±1	0.05	0.05	all 50 mm starting in the middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-011	LIA-20 1Vpp	±1	20 (1Vss)	0.015	all 50 mm starting in the middle of travel	1 Vpp	2 + 1 index and complementary outputs
LS-012	LIA-20 RS422	±1	0.05	0.05	all 50 mm starting in the middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-013	Epiflex Meßmodul EM D0.1-2 Sensor 5x10		20 (1Vpp)	0.05		1Vpp	2
LS-020	LIP-481-R 1Vpp	±0.5	2 (1Vss)	0.001	app. middle of travel	1 Vpp	2 + 1 index and complementary outputs
LS-021	LIP-481-R 1Vpp	±0.2	2 (1Vss)	0.001	app. middle of travel	1 Vpp	2 + 1 index and complementary outputs
LS-025	Kit-L2	±1	0.05	0.05	app. middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-028	NanoStar	5	0.05	0.05		absolute	
LS-030	LIP-581-R	±1	4 (1Vss)	0.005	yes	1 Vpp	2 + 1 index and complementary outputs
LS-035	LIK-41	±1	0.05	0.05	app. middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-036	LIK-41	±1	20 (1Vpp)	0.01	app. middle of travel	1Vpp	2+1 index and complementary outputs
LS-040	LIP-372	±0.5	0.001	0.001	no	RS-422 differential	2
LS-050	LIK-21	±1	0.05	0.05	all 50 mm starting in the middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-059	Mercury 3000	±3	0.02	0.02	in the middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-060	M3500L	±3	0.005	0.005	in the middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-061	M6000L	±1.5	0.005	0.005	middle of travel	RS-422 differential	2 + 1 index and complementary outputs
LS-070	RGH25+RGB25B	±3	20 (1Vss)	0.015	yes	1 Vpp	2 + 1 index and complementary outputs

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APPENDIX

DC-brush motors
2-Phase stepper

Torque motors
Linear motors
Piezo motors
Linear encoders LE

Rotary encoders RE
Rotary encoders AE

9.246 Motors & Encoders

TECHNICAL DATA

Rotary encoders RE

Alias	Model	Resolution	Increments/revolution	Index position	Signals	Signal output, (quadrature) channels
		°				
RE-002	30B19	9	10	no	TTL	2
RE-005	IE2-512	0.17578125	512	no	TTL	2
RE-010	HEDL-5540	0.18	500	yes	RS-422 differential	2 + 1 index and complementary outputs
RE-015	2RMHF	0.018	5000	yes	RS-422 differential	2 + 1 index and complementary outputs
RE-016	F14	0.018	5000	yes	RS-422 differential	2 + 1 index and complementary outputs
RE-025	MR256	0.3515	256	yes	RS-422 differential	2 + 1 index and complementary outputs

TECHNICAL DATA

Rotary encoders AE

Alias	Model	Accuracy	Resolution	Recommended meas. step	Index position	Signals	Signal output, (quadrature) channels	Increments/revolution
		ArcSec	°	°				
AE-015	Signum d=229 mm	0,97	0.01 (1Vpp)	0.00001	yes	1 Vpp + RS422	2 + 1 index and complementary outputs	36000
AE-050	RIK RS-422 P4	±20 (5.5m°)	0.0001	0.0001	one, near cal-switch	RS 422 differential	2 + 1 index and complementary outputs	9000
AE-051	RIK 1Vpp	±20 (5.5m°)	0.04 (1Vpp)	0.00002	one, near cal-switch	1 Vpp	2 + 1 index and complementary outputs	9000
AE-053	Reni T2011-30 A	±2.3	0.022866 (1Vpp)	0.00001	one		2 + 1 index and complementary outputs	15744
AE-068	Signum d=150 mm	1.5	0.000076271	1.5E-5	yes	RS 422 differential + 1 Vpp	2 + 1 index and complementary outputs	23600
AE-070	RGR+RGH24B		0.0000573	0.0000573	yes	RS 422 differential	2 + 1 index and complementary outputs	31453
AE-080	Signum d=57mm	±4	0.04 (1Vpp)	0.00002	yes	1 Vpp	2 + 1 index and complementary outputs	9000