

Direction of rotation cw (definition cw p. 150)

Stock program Standard program	Part Numbers						
Special program (on request)	110512	110514	110516				
Туре							
Counts per turn	500	500	500				
Number of channels	3	3	3				
Max. operating frequency (kHz)	100	100	100				
Max. speed (rpm)	12 000	12000	12 000				
Shaft diameter (mm)	3	4	6				

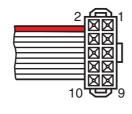






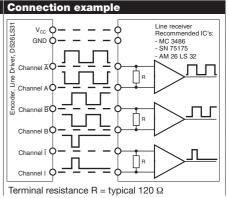
maxon Modula	ır Syste	m								
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length	[mm] / • see G	earhead		
RE 25	179/181					75.3				
RE 25	179/181	GP 26/GP 32	336/338			•				
RE 25	179/181	KD 32, 1.0 - 4.5 Nm	347			•				
RE 25	179/181	GP 32, 0.75 - 6.0 Nm	339/342			•				
RE 25	179/181	GP 32 S	370-372			•				
RE 25, 20 W	180					63.8				
RE 25, 20 W	180	GP 26/GP 32	336/338			•				
RE 25, 20 W	180	KD 32, 1.0 - 4.5 Nm	347			•				
RE 25, 20 W	180	GP 32, 0.75 - 6.0 Nm	339/342			•				
RE 25, 20 W	180	GP 32 S	370-372			•				
RE 25, 20 W	180			AB 28	446	94.3				
RE 25, 20 W	180	GP 26/GP 32	336/338	AB 28	446	•				
RE 25, 20 W	180	KD 32, 1.0 - 4.5 Nm	347	AB 28	446	•				
RE 25, 20 W	180	GP 32, 0.75 - 6.0 Nm	339/342	AB 28	446	•				
RE 25, 20 W	180	GP 32 S	370-372	AB 28	446	•				
RE 25, 20 W	181			AB 28	446	105.8				
RE 25, 20 W	181	GP 26/GP 32	336/338	AB 28	446	•				
RE 25, 20 W	181	KD 32, 1.0 - 4.5 Nm	347	AB 28	446	•				
RE 25, 20 W	181	GP 32, 0.75 - 6.0 Nm	339/342	AB 28	446	•				
RE 25, 20 W	181	GP 32 S	370-372	AB 28	446	•				
RE 30, 15 W	182					88.8				
RE 30, 15 W	182	GP 32, 0.75 - 4.5 Nm	340			•				
RE 30, 60 W	183					88.8				
RE 30, 60 W	183	GP 32, 0.75 - 6.0 Nm	338-344			•				
RE 30, 60 W	183	KD 32, 1.0 - 4.5 Nm	347			•				
RE 30, 60 W	183	GP 32 S	370-372			•				
RE 35, 90 W	184						91.7			
RE 35, 90 W	184	GP 32, 0.75 - 8.0 Nm	338-345				•			
RE 35, 90 W	184	GP 42, 3.0 - 15 Nm	349				•			
RE 35, 90 W	184	GP 32 S	370-372				•			
RE 35, 90 W	184			AB 28	446	124.3				
RE 35, 90 W	184	GP 32, 0.75 - 8.0 Nm	338-345	AB 28	446	•				
RE 35, 90 W	184	GP 42, 3.0 - 15 Nm	349	AB 28	446	•				
RE 35, 90 W	184	GP 32 S	370-372	AB 28	446	•				
Technical Data	l		Pin	Allocation			Co	nnection exa	ample	

TIL 33, 30 VV	104	ai	02 0		570
Technical Data					
Supply voltage V _{CC}				5 V	± 10%
Output signal			EIA S	tandard l	RS 422
driver used:				DS2	26LS31
Phase shift Φ				90°e	± 45°e
Signal rise time					
(typically, at $C_L = 25$	pF, R _L =	2.7	kΩ, 25°0	C)	180 ns
Signal fall time					
(typically, at C _L = 25	5 pF, R _L =	2.7	kΩ, 25°0	C)	40 ns
Index pulse width					90°e
Operating temperat	ure range	Э		-40+	-100°C
Moment of inertia of	f code w	heel		≤ 0.	6 gcm ²
Max. angular accele	eration			250000	rad s ⁻²
Output current per	channel	m	nin20 n	nA, max.	20 mA
Option	1000	Cou	nts per t	urn, 2 Ch	nannels
The index signal I is	synchro	nize	d with ch	nannel A	or B.

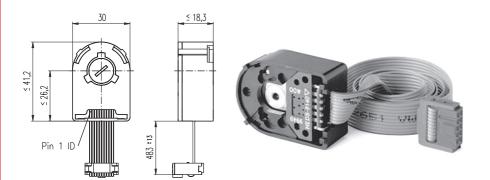


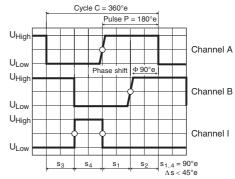
N.C.
V_{CC}
GND
N.C.
Channel Ā
Channel B
Channel B
Channel I (Index)
Channel I (Index)

Pin type DIN 41651/ EN 60603-13 flat band cable AWG 28



maxon sensor 401





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Stock program
Standard program
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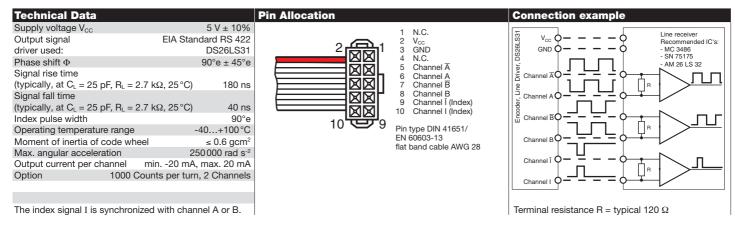
Standard program	Part Numbers						
Special program (on request)	110512	110514	110516	110518			
Туре							
Counts per turn	500	500	500	500			
Number of channels	3	3	3	3			
Max. operating frequency (kHz)	100	100	100	100			
Max. speed (rpm)	12000	12000	12000	12 000			
Shaft diameter (mm)	3	4	6	8			

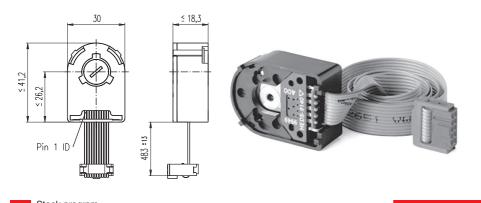


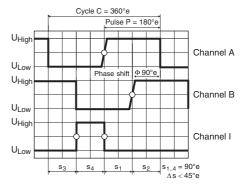




RE 40, 25 W RE 40, 150 W RE 40, 150 W RE 40, 150 W	185 186		_							
RE 40, 150 W	186						91.7			
							91.7			
RF 40, 150 W	186	GP 42, 3.0 - 15 Nm	349				•			
	186	GP 52, 4.0 - 30 Nm	354				•			
RE 40, 150 W	186			AB 28	446	124.3				
RE 40, 150 W	186	GP 42, 3.0 - 15 Nm	349	AB 28	446	•				
RE 40, 150 W	186	GP 52, 4.0 - 30 Nm	354	AB 28	446	•				
RE 50, 200 W	187								128.7	
RE 50, 200 W	187	GP 52, 4 - 30 Nm	355						•	
RE 50, 200 W	187	GP 62, 8 - 50 Nm	356						•	
RE 65, 250 W	188								157.3	
RE 65, 250 W	188	GP 81, 20 - 120 Nm	357						•	
A-max 26	206-21	2				63.1				
A-max 26	206-21	2 GP 26, 0.75 - 4.5 Nm	336			•				
A-max 26	206-21	2 GS 30/GP 32	337/34	0		•				
A-max 26	206-21	2 GP 32, 0.75 - 6.0 Nm	339/34	3		•				
A-max 26	206-21	2 GS 38, 0.1 - 0.6 Nm	348			•				
A-max 26	206-21	2 GP 32 S	370-37	2		•				
A-max 32	214/210	6					82.3			
A-max 32	214/210	6 GP 32, 0.75 - 6.0 Nm	338-34	3			•			
A-max 32	214/210	6 GS 38, 0.1 - 0.6 Nm	348				•			
A-max 32	214/210	6 GP 32 S	370-37	2			•			
EC 32, 80 W	251						78.4			
EC 32, 80 W	251	GP 32, 0.75 - 6.0 Nm	338-34	4			•			
EC 32, 80 W	251	GP 32 S	370-37	2			•			
EC 40, 170 W	252							103.4		
EC 40, 170 W	252	GP 42, 3.0 - 15 Nm	349					•		
EC 40, 170 W	252	GP 52, 4.0 - 30 Nm	354					•		







Direction of rotation cw (definition cw p. 150)

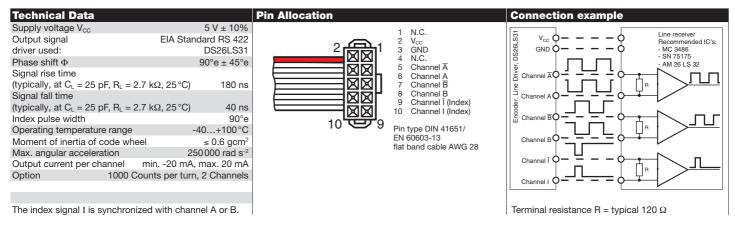
Stock program Standard program	Part Number	Part Numbers					
Special program (on request)	110512	110514	110516				
Туре							
Counts per turn	500	500	500				
Number of channels	3	3	3				
Max. operating frequency (kHz)	100	100	100				
Max. speed (rpm)	12000	12000	12000				
Shaft diameter (mm)	3	4	6				



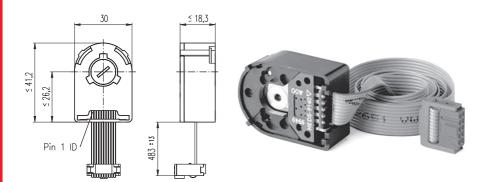
overall length

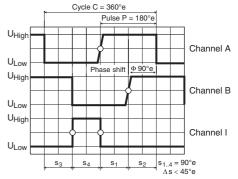


+ Motor	ar Syst	+ Gearhead	Page	+ Brake	Page	Overell length [m	C-	oulo o o d	
+ Motor EC-max 30, 40 W	Page 264	+ Gearneau	Page	+ Drake	Page	Overall length [m	•	arnead	
,		OD 00 10 00 N	0.40/0.45				62.6		
EC-max 30, 40 W	264	GP 32, 1.0 - 8.0 Nm	343/345				•		
EC-max 30, 40 W	264	KD 32, 1.0 - 4.5 Nm	347				•		
EC-max 30, 40 W	264	GP 32 S	370-372		444		00.4		
EC-max 30, 40 W	264	OD 00 40 00N	0.40/0.45	AB 20	444		98.4		
EC-max 30, 40 W	264	GP 32, 1.0 - 8.0 Nm	343/345		444		•		
EC-max 30, 40 W	264	KD 32, 1.0 - 4.5 Nm		AB 20	444		•		
EC-max 30, 40 W	264	GP 32 S	370-372	AB 20	444		•		
EC-max 30, 60 W	265	00.00 40 0011	0.40/0.45				84.6		
EC-max 30, 60 W	265	GP 32, 1.0 - 8.0 Nm	343/345				•		
EC-max 30, 60 W	265	KD 32, 1.0 - 4.5 Nm	347				•		
EC-max 30, 60 W	265	GP 42, 3 - 15 Nm	350				•		
EC-max 30, 60 W	265			AB 20	444		120.4		
EC-max 30, 60 W	265	GP 32, 1.0 - 8.0 Nm	343/345		444		•		
EC-max 30, 60 W	265	KD 32, 1.0 - 4.5 Nm	347	AB 20	444		•		
EC-max 30, 60 W	265	GP 42, 3 - 15 Nm	350	AB 20	444		•		
EC-max 40, 70 W	266							81.4	
EC-max 40, 70 W	266	GP 42, 3 - 15 Nm	350					•	
EC-max 40, 70 W	266			AB 28	445			110.7	
EC-max 40, 70 W	266	GP 42, 3 - 15 Nm	350	AB 28	445			•	
EC-max 40, 120 W	267							111.4	
EC-max 40, 120 W	267	GP 52, 4 - 30 Nm	355					•	
EC-max 40, 120 W	267			AB 28	445			140.7	
EC-max 40, 120 W	267	GP 52, 4 - 30 Nm	355	AB 28	445			•	
EC-4pole 22, 90 W	271					70.1			
EC-4pole 22, 90 W	271	GP 22/GP 32	333/343			•			
EC-4pole 22, 90 W	271	GP 32 S	370-372			•			
EC-4pole 22, 120 V	V 272					87.5			
EC-4pole 22, 120 V	V 272	GP 22/GP 32	333/343			•			
EC-4pole 22, 120 V	V 272	GP 32 S	370-372			•			



May 2016 edition / subject to change maxon sensor 403





Direction of rotation cw (definition cw p. 150)

Stock program
Standard program
Special program (on request)

Standard program					
Special program (on request)	110512	110514	110516	110518	X drives
Туре					
Counts per turn	500	500	500	500	500
Number of channels	3	3	3	3	3
Max. operating frequency (kHz)	100	100	100	100	100
Max. speed (rpm)	12000	12000	12000	12 000	12000
Shaft diameter (mm)	3	4	6	8	2–4

Part Numbers



- overall length	-	overall lerigin								
maxon Modul	ar Syste	em								
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gea	rhead		
EC-4pole 30, 100	W 273						67.6			
EC-4pole 30, 100	W 273	GP 32, 4.0 - 8.0 Nm	345				•			
EC-4pole 30, 100	W 273	GP 42, 3 - 15 Nm	350				•			
EC-4pole 30, 100	W 273			AB 20	444		104.0			
EC-4pole 30, 100	W 273	GP 32, 4.0 - 8.0 Nm	345	AB 20	444		•			
EC-4pole 30, 100	W 273	GP 42, 3 - 15 Nm	350	AB 20	444		•			
EC-4pole 30, 200	W 275						84.6			
EC-4pole 30, 200	W 275	GP 32, 4.0 - 8.0 Nm	345				•			
EC-4pole 30, 200	W 275	GP 42, 3 - 15 Nm	350				•			
EC-4pole 30, 200	W 275			AB 20	444		121.0			
EC-4pole 30, 200	W 275	GP 32, 4.0 - 8.0 Nm	345	AB 20	444		•			
EC-4pole 30, 200	W 275	GP 42, 3 - 15 Nm	350	AB 20	444		•			
EC-i 40, 50 W	281/28	2						49.0		
EC-i 40, 50 W	281	GP 32, 1 - 6 Nm	343					•		
EC-i 40, 50 W	281/28	2 GP 42, 3 - 15 Nm	350					•		
EC-i 40, 50 W	281	GP 32 S	370-37	2				•		
EC-i 40, 70 W	283/28	4						59.0		
EC-i 40, 70 W	283	GP 32, 1 - 6 Nm	343					•		
EC-i 40, 70 W		4 GP 42, 3 - 15 Nm	350					•		
EC-i 40, 70 W	283	GP 32 S	370-37	2				•		
EC-i 40, 100 W	285							79.0		
EC-i 40, 100 W	285	GP 42, 3 - 15 Nm	350					•		
EC-i 52, 180 W	286								100.7	
EC-i 52, 180 W	286	GP 52, 4 - 30 Nm	354						•	
DCX 22 S	76-77									online
DCX 22 L	78-79									online
DCX 26 L	80-81									online
DCX 32 L	82									online
DCX 35 L	83									online

