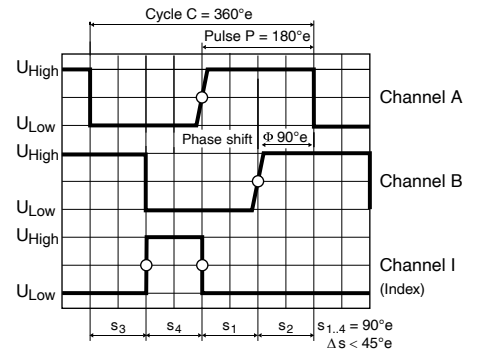
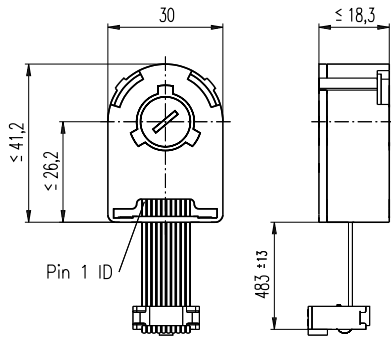


# Encoder AEDL 5810 1024–5000 CPT, 3 channels, with line driver RS 422

sensor



Direction of rotation cw (definition cw p. 78)

- Stock program
- Standard program
- Special program (on request)

### Part Numbers

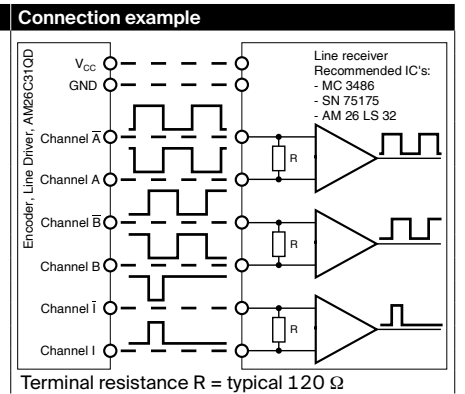
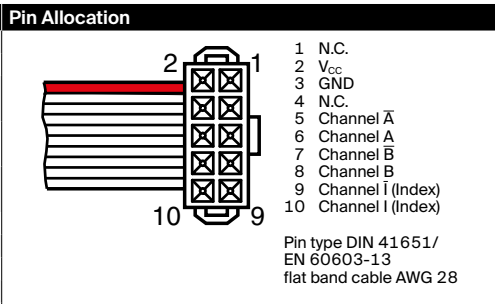
516205	516206	516207	516208	516209	533330	X drives	X drives
--------	--------	--------	--------	--------	--------	----------	----------

Type	516205	516206	516207	516208	516209	533330	X drives	X drives
Counts per turn	1024	5000	1024	5000	5000	5000	1024	5000
Number of channels	3	3	3	3	3	3	3	3
Max. operating frequency (kHz)	250	1000	250	1000	1000	1000	250	1000
Max. speed (rpm)	14000	12000	14000	12000	12000	12000	14000	12000
Shaft diameter (mm)	3	3	4	4	6	8	2-4	2-4
Phase shift $\Phi$ (°e)	90 ± 25	90 ± 45	90 ± 25	90 ± 45	90 ± 45	90 ± 45	90 ± 25	90 ± 45



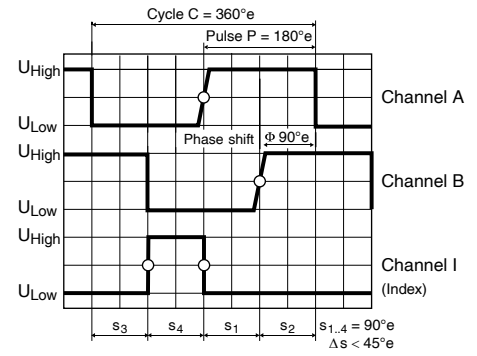
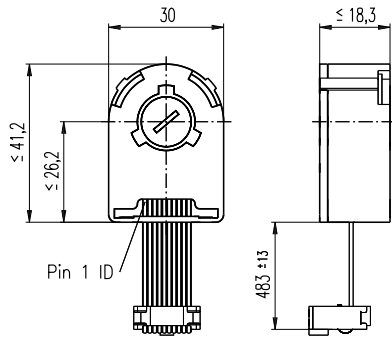
maxon Modular System						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
EC-4pole 22, 90 W	257					70.1 70.1
EC-4pole 22, 90 W	257	GP 22/GP 32	387/397			• •
EC-4pole 22, 90 W	257	GP 32 S	426-433			• •
EC-4pole 22, 120 W	258					87.5 87.5
EC-4pole 22, 120 W	258	GP 22/GP 32	387/397			• •
EC-4pole 22, 120 W	258	GP 32 S	426-433			• •
EC-4pole 30, 100 W	259					67.6 67.6
EC-4pole 30, 100 W	259	GP 32, 1.0 - 6.0 Nm	397			• •
EC-4pole 30, 100 W	259	GP 32, 4.0 - 8.0 Nm	400			• •
EC-4pole 30, 100 W	259	GP 42, 3.0 - 15.0 Nm	406			• •
EC-4pole 30, 100 W	259	GP 32 S	426-433			• •
EC-4pole 30, 100 W	259			AB 20	532	104.0 104.0
EC-4pole 30, 100 W	259	GP 32, 1.0 - 6.0 Nm	397	AB 20	532	• •
EC-4pole 30, 100 W	259	GP 32, 4.0 - 8.0 Nm	400	AB 20	532	• •
EC-4pole 30, 100 W	259	GP 42, 3.0 - 15.0 Nm	406	AB 20	532	• •
EC-4pole 30, 100 W	259	GP 32 S	426-433	AB 20	532	• •
EC-4pole 30, 200 W	261					84.6 84.6
EC-4pole 30, 200 W	261	GP 32, 1.0 - 6.0 Nm	397			• •
EC-4pole 30, 200 W	261	GP 32, 4.0 - 8.0 Nm	400			• •
EC-4pole 30, 200 W	261	GP 42, 3.0 - 15.0 Nm	406			• •
EC-4pole 30, 200 W	261	GP 32 S	426-433			• •
EC-4pole 30, 200 W	261			AB 20	532	121.0 121.0
EC-4pole 30, 200 W	261	GP 32, 1.0 - 6.0 Nm	397	AB 20	532	• •
EC-4pole 30, 200 W	261	GP 32, 4.0 - 8.0 Nm	400	AB 20	532	• •
EC-4pole 30, 200 W	261	GP 42, 3.0 - 15.0 Nm	406	AB 20	532	• •
EC-4pole 30, 200 W	261	GP 32 S	426-433	AB 20	532	• •

Technical Data	
Supply voltage $V_{CC}$	5 V ± 10%
Typical current draw	30 mA
Output signal driver used:	EIA Standard RS 422 AM26C31QD
Signal rise time (typically, at $C_L = 100$ pF, 25 °C)	10 ns
Signal fall time (typically, at $C_L = 100$ pF, 25 °C)	10 ns
Index pulse width	90°e
Operating temperature range	-40...+85 °C
Moment of inertia of code wheel	≤ 0.6 gcm <sup>2</sup>
Output current per channel	± 20 mA



The index signal I is synchronized with channel A or B.

# Encoder AEDL 5810 1024–5000 CPT, 3 channels, with line driver RS 422



Direction of rotation cw (definition cw p. 78)

sensor

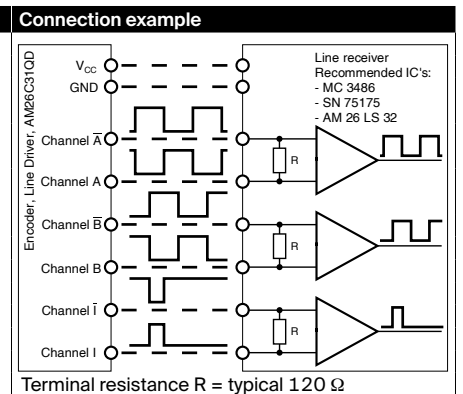
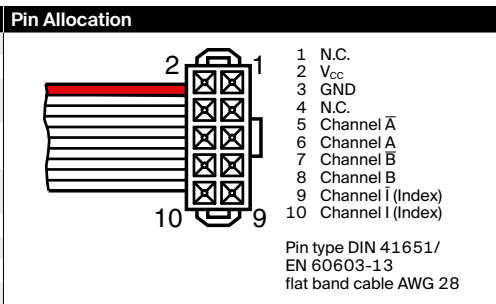
- Stock program
- Standard program
- Special program (on request)

Part Numbers								
516205	516206	516207	516208	516209	533330	X drives	X drives	

Type								
Counts per turn	1024	5000	1024	5000	5000	5000	1024	5000
Number of channels	3	3	3	3	3	3	3	3
Max. operating frequency (kHz)	250	1000	250	1000	1000	1000	250	1000
Max. speed (rpm)	14000	12000	14000	12000	12000	12000	14000	12000
Shaft diameter (mm)	3	3	4	4	6	8	2-4	2-4
Phase shift $\phi$ (°)	90 ± 25	90 ± 45	90 ± 25	90 ± 45	90 ± 45	90 ± 45	90 ± 25	90 ± 45

maxon Modular System						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
EC-i 30, 30 W	268					62.7 62.7
EC-i 30, 30 W	268	GP 32, 1.0 - 6.0 Nm	397			• •
EC-i 30, 30 W	268	GP 32 S	426-433			• •
EC-i 30, 45 W	269					62.7 62.7
EC-i 30, 45 W	269	GP 32, 1.0 - 6.0 Nm	397			• •
EC-i 30, 45 W	269	GP 32 S	426-433			• •
EC-i 30, 50 W	270					84.7 84.7
EC-i 30, 50 W	270	GP 32, 1.0 - 6.0 Nm	397			• •
EC-i 30, 50 W	270	GP 32 S	426-433			• •
EC-i 30, 75 W	271					84.7 84.7
EC-i 30, 75 W	271	GP 32, 1.0 - 6.0 Nm	397			• •
EC-i 30, 75 W	271	GP 32 S	426-433			• •
EC-i 40, 50 W	272-273					49.0
EC-i 40, 50 W	272	GP 32, 1.0 - 6.0 Nm	398			•
EC-i 40, 50 W	272	GP 32 S	426-433			•
EC-i 40, 50 W	272-273	GP 42, 3.0 - 15.0 Nm	406			•
EC-i 40, 70 W	274/275					59.0
EC-i 40, 70 W	274	GP 32, 1.0 - 6.0 Nm	398			•
EC-i 40, 70 W	274	GP 32 S	426-433			•
EC-i 40, 70 W	274/275	GP 42, 3.0 - 15.0 Nm	407			•
EC-i 40, 100 W	276					79.0
EC-i 40, 100 W	276	GP 42, 3.0 - 15.0 Nm	406			•
EC-i 40, 130 W	277					113.8
EC-i 40, 130 W	277	GP 42, 3.0 - 15.0 Nm	406			•
EC-i 52, 180 W	278					100.7
EC-i 52, 180 W	278	GP 52, 4.0 - 30.0 Nm	411			•
EC-i 52, 200 W	279					130.7
EC-i 52, 200 W	279	GP 52, 4.0 - 30.0 Nm	411			•
DCX 22 S	99-100					online
DCX 22 L	101-102					online
DCX 26 L	103-104					online
DCX 32 L	105					online
DCX 35 L	106					online

Technical Data	
Supply voltage $V_{CC}$	5 V ± 10%
Typical current draw	30 mA
Output signal driver used:	EIA Standard RS 422 AM26C31QD
Signal rise time (typically, at $C_L = 100$ pF, 25°C)	10 ns
Signal fall time (typically, at $C_L = 100$ pF, 25°C)	10 ns
Index pulse width	90°e
Operating temperature range	-40...+85°C
Moment of inertia of code wheel	≤ 0.6 gcm <sup>2</sup>
Output current per channel	± 20 mA



The index signal I is synchronized with channel A or B.