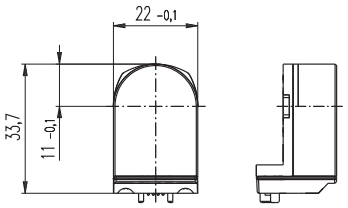
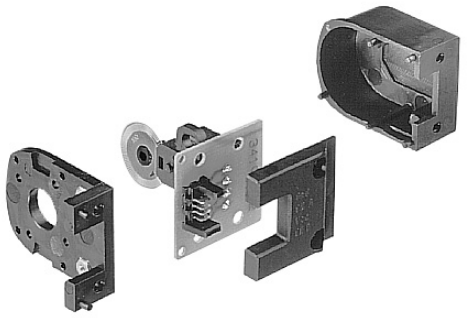
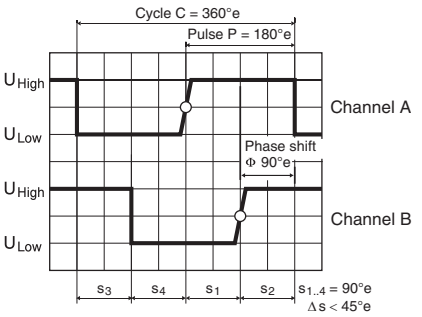
Encoder Enc 22 100 Counts per turn, 2 Channels



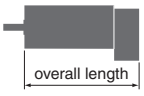


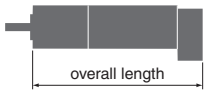


Direction of rotation cw (definition cw p. 48)

Stock program
Standard program
Special program (on request)

Order Number	103937	143330	103935	110520	168045	110521
Type						
Counts per turn	100	100	100	100	100	100
Number of channels	2	2	2	2	2	2
Max. operating frequency (kHz)	20	20	20	20	20	20
Max. speed (rpm)	12000	12000	12000	12000	12000	12000
Shaft diameter (mm)	2	2	3	2	3	3
Orientation encoder to motor mounting defined		± 5°			± 5°	





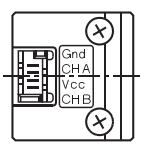
maxon Modular System

+ Motor	Page	+ Gearhead	Page	Overall length [mm] / ● see Gearhead
RE 25	77/79			68.6
RE 25	77/79	GP 26, 0.5 - 2.0 Nm	227	●
RE 25	77/79	GP 32, 0.75 - 4.5 Nm	229	●
RE 25	77/79	GP 32, 0.75 - 4.5 Nm	230	●
RE 25	77/79	GP 32, 1.0 - 6.0 Nm	232	●
RE 25	77/79	GP 32 S	249-251	●

Technical Data

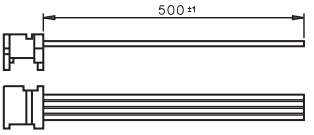
Supply voltage V_{CC}	5 V ± 10%
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at C_L = 25 pF, R_L = 11 kΩ, 25°C)	200 ns
Signal fall time (typically, at C_L = 25 pF, R_L = 11 kΩ, 25°C)	50 ns
Operating temperature range	-20 ... +85°C
Moment of inertia of code wheel	≤ 0.05 gcm²
Output current per channel	min. -1 mA, max. 5 mA

Pin Allocation

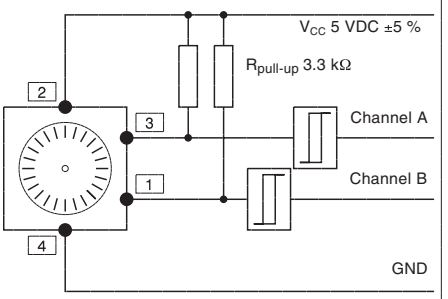


Micromodule contact strip
Type Lumberg MICS 4
Pin 4 GND
Pin 3 Channel A
Pin 2 V_{CC}, Pin 1 Channel B
recommended connectors:
Micromodule connector
Type Lumberg MICA 4

Order number for connector with cable: 3419.506

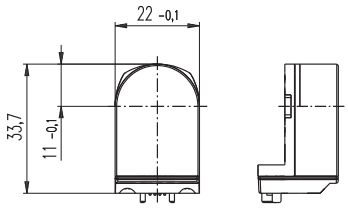


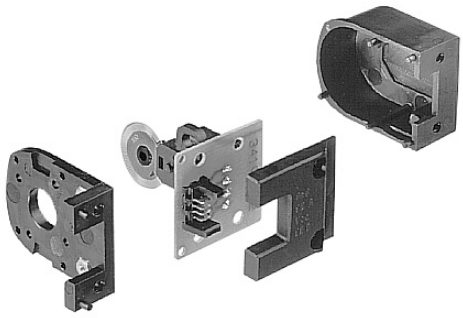
Connection example

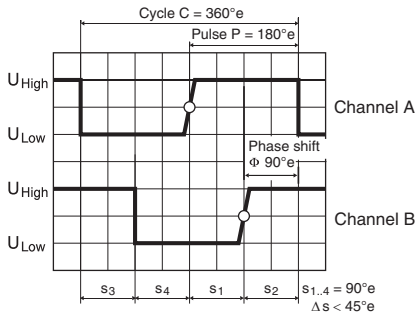


Ambient temperature range ϑ_U = 22 - 25°C

Encoder Enc 22 100 Counts per turn, 2 Channels







Direction of rotation cw (definition cw p. 48)

Stock program
Standard program
Special program (on request)

Order Number	103937	143330	103935	110520	168045	110521
Type						
Counts per turn	100	100	100	100	100	100
Number of channels	2	2	2	2	2	2
Max. operating frequency (kHz)	20	20	20	20	20	20
Max. speed (rpm)	12000	12000	12000	12000	12000	12000
Shaft diameter (mm)	2	2	3	2	3	3
Orientation encoder to motor mounting defined		± 5°			± 5°	





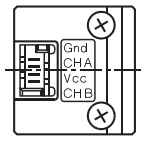
maxon Modular System

+ Motor	Page	+ Gearhead	Page	Overall length [mm] / ● see Gearhead					
A-max 19, 1.5 W	94						43.3		
A-max 19, 1.5 W	94	GP 19, 0.1 - 0.3 Nm	217				●		
A-max 19, 1.5 W	94	GS 20, 0.06 - 0.25 Nm	218				●		
A-max 19, 1.5 W	94	GP 22, 0.1 - 2.0 Nm	219-222				●		
A-max 19, 1.5 W	94	GS 24, 0.1 Nm	226				●		
A-max 19, 1.5 W	94	GP 22 S	247/248				●		
A-max 19, 2.5 W	96						45.9		
A-max 19, 2.5 W	96	GP 19, 0.1 - 0.3 Nm	217				●		
A-max 19, 2.5 W	96	GP 22, 0.1 - 2.0 Nm	219-222				●		
A-max 19, 2.5 W	96	GS 24, 0.1 Nm	226				●		
A-max 19, 2.5 W	96	GP 22 S	247/248				●		
A-max 22	98/100						46.3		
A-max 22	98/100	GP 22, 0.1 - 0.3 Nm	219				●		
A-max 22	98/100	GP 22, 0.2 - 0.6 Nm	220				●		
A-max 22	98/100	GP 22, 0.1 - 2.0 Nm	219-222				●		
A-max 22	98/100	GS 24, 0.1 Nm	226				●		
A-max 22	98/100	GP 22 S	247/248				●		
A-max 26	102-108								59.1
A-max 26	102-108	GP 26, 0.5 - 2.0 Nm	227						●
A-max 26	102-108	GS 30, 0.07 - 0.2 Nm	228						●
A-max 26	102-108	GP 32, 0.75 - 4.5 Nm	229						●
A-max 26	102-108	GP 32, 0.75 - 4.5 Nm	230						●
A-max 26	102-108	GP 32, 1.0 - 6.0 Nm	233						●
A-max 26	102-108	GS 38, 0.1 - 0.6 Nm	236						●
A-max 26	102-108	GP 32 S	247/248						●

Technical Data

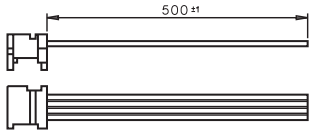
Supply voltage V_{CC}	5 V ± 10%
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at C_L = 25 pF, R_L = 11 kΩ, 25°C)	200 ns
Signal fall time (typically, at C_L = 25 pF, R_L = 11 kΩ, 25°C)	50 ns
Operating temperature range	-20 ... +85°C
Moment of inertia of code wheel	≤ 0.05 gcm²
Output current per channel	min. -1 mA, max. 5 mA

Pin Allocation

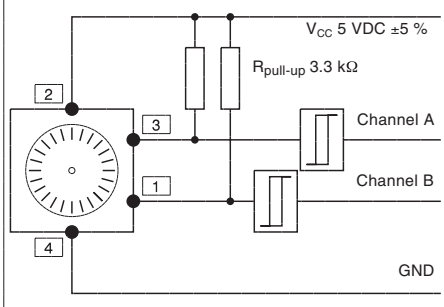


Micromodule contact strip
Type Lumberg MICS 4
Pin 4 GND
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recommended connectors:
Micromodule connector
Type Lumberg MICA 4

Order number for connector with cable: 3419.506



Connection example



Ambient temperature range ϑ_U = 22 - 25°C