ENX 10 GAMA Encoder ∅10 mm, 12 CPT

Radiation-resistant

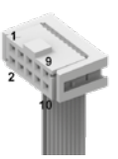
NEW

Key data		GAMA incremental
Number of channels		2
Counts per turn[1]		12
Encoder length L[2]	mm	8.0
Ambient temperature	°C	–20 ... 105
Weight	g	<5

Selection criteria	GAMA incremental
Speed and rotation direction detection	■
Speed and position control	▲
Compact and robust design	■
High resolution	▲
Cost effective	■

■ suitable ▲ suitable to a limited extent ● not suitable

Specifications		GAMA incremental
Supply voltage V_{cc}	V	5 ± 0.5
Typical current draw	mA	10
Max. operating frequency	kHz	24
Max. Speed	rpm	60 000
Connector		10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) Pin 1 Motor + Pin 2 V_{cc} Pin 3 Channel A Pin 4 Channel B Pin 5 GND Pin 6 Motor – Pin 7 Not connected Pin 8 Not connected Pin 9 Not connected Pin 10 Not connected Output signal: TTL compatible, push-pull Output current per channel: + 10 mA



GAMA Radiation resistance

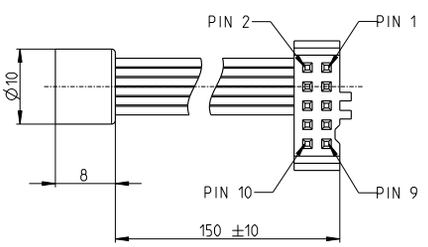
The GAMA encoder type is resistant to ionizing radiation

Tested with a Co60 radiation source (gamma radiation) at up to 18 krad/h and a maximum radiation dose (TID) of 500 krad.

Configurations		GAMA incremental
Connector		6-pin, 10-pin
Cable length	mm	50, 100, 150, 200, 300, 500

maxon modular system	Page
maxon DC motor	
RE 10, 0.75 W	128
RE 10, 1.5 W	130

Dimensions standard version M 1:1



Notes

[1] maxon controllers require a resolution of at least 16 pulses.

[2] The length shown here refers only to the encoder. The additional length when mounted on a motor, or the effective length of a motor/encoder combination, can be found on the respective dimensional drawing.

Maximum permissible cable/plug continuous current: 1.2 A.

Ordering information: For motors that cannot be configured online, use the part number 714457 when ordering the ENX 10 GAMA.

xdrives.maxongroup.com

ENX 13 GAMA Encoder ∅13 mm, 16 CPT

Radiation-resistant

NEW

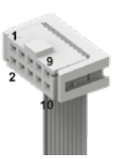
ENX

Key data		GAMA incremental
Number of channels		2
Counts per turn		16
Encoder length L[1]	mm	7.0 ... 9.0
Ambient temperature	°C	–20 ... 105
Weight	g	<5

Selection criteria	GAMA incremental
Speed and rotation direction detection	■
Speed and position control	▲
Compact and robust design	■
High resolution	▲
Cost effective	■

■ suitable ▲ suitable to a limited extent ● not suitable

Specifications		GAMA incremental
Supply voltage V_{cc}	V	5 ± 0.5
Typical current draw	mA	10
Max. operating frequency	kHz	24
Max. Speed	rpm	60 000
Connector		10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) Pin 1 Motor + Pin 2 V_{cc} Pin 3 Channel A Pin 4 Channel B Pin 5 GND Pin 6 Motor – Pin 7 Not connected Pin 8 Not connected Pin 9 Not connected Pin 10 Not connected Output signal: TTL compatible, push-pull Output current per channel: + 10 mA



GAMA Radiation resistance

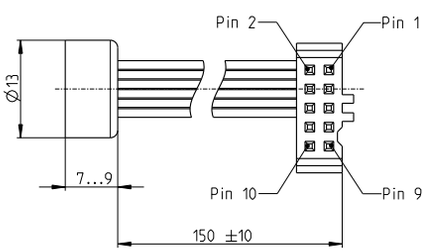
The GAMA encoder type is resistant to ionizing radiation

Tested with a Co60 radiation source (gamma radiation) at up to 18 krad/h and a maximum radiation dose (TID) of 500 krad.

Configurations		GAMA incremental
Connector		6-pin, 10-pin
Cable length	mm	50, 100, 150, 200, 300, 500

maxon modular system	Page
maxon DC motor	
DC-max 16 S	117–118
DC-max 22 S	119–120
DC-max 26 S	121–122
RE 13	131–146
RE 16	147–151
A-max 16	167–170
A-max 19	171–174
A-max 22	175–178
A-max 26	179–182

Dimensions standard version M 1:1



Notes

[1] The length shown here refers only to the encoder. The additional length when mounted on a motor, or the effective length of a motor/encoder combination, can be found on the respective dimensional drawing.

Maximum permissible cable/plug continuous current: 1.2 A.

Ordering information: For motors that cannot be configured online, use the part number **714445** when ordering the ENX 13 GAMA.

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