

High-grade steel absolute multi-turn shaft encoder

BEMV flexible – ProCoder

Profibus-DP, CANopen, DeviceNet

features

- high-grade steel housing 1.4305
- multi-turn encoder up to
 - 13 bit single-turn
 - 16 bit multi-turn
- modular bus cover
- simple mounting via servo flange
- programmable bus parameters
- programmable resolution and preset values



general data

voltage supply	10 - 30 VDC with reverse polarity protection
supply current no load	max. 100 mA (at 24 VDC)
max. resolution single-turn	13 bit (1 step = 2' 38")
multi-turn	16 bit (65'536 revolutions)
max. switching frequency	800 kHz
max. error limit	±0,05°
preset	in state data-exchange encoder can be set to a predefined position
address	adjustable via Jog-dial
direction of rotation	looking at the flange, position counts up as the shaft rotates clockwise (CW), programmable

mechanical data

max. revolutions	mech. 10'000 rpm electr. 6'000 rpm
moment of inertia	2 x 10 ⁻⁶ kgm ²
starting torque	≤ 0,015 Nm
max. shaft load	axial: < 20 N radial: < 40 N
max. protection class	IP 67
material	housing: high-grade steel 1.4305
weight	approx. 900 g

ambient conditions

temperature range	-25...+85 °C
vibration	DIN EN 60068-2-6 (≤ 100 m/s ² / 16 - 2'000 Hz)
shock	DIN EN 60068-2-27 (≤ 2'000 m/s ² / 6 ms)
noise immunity	DIN EN 61000-6-2
emitted interference	DIN EN 61000-6-4

