

Absolute encoders - BiSS C

Cone shaft

Optical singleturn encoders

EFL580 - BiSS C



EFL580 with cone shaft

Features

- Encoder singleturn / BiSS C
- Optical sensing method
- Resolution: singleturn 13 bit
- Additional incremental signals 2048 sine periods
- Cone shaft
- Operating temperature max. +105 °C

Optional

- Resolution 19 bit (for digital speed feedback)
- Alternative connectivity

Technical data - electrical ratings

Voltage supply	5 VDC ±10 % (please consider the voltage drop on the supply cable)
Reverse polarity protection	Yes
Consumption w/o load	≤50 mA
Interfaces	BiSS C, SinCos
Function	Singleturn
Steps per revolution	8192 / 13 bit
Sensing method	Optical
Code	Binary
Incremental output	2048 sinewaves A, B, sine 1 Vpp
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	UL approval / E63076

Technical data - mechanical design

Size (flange)	ø58 mm
Shaft type	ø9.25 mm cone shaft (1:10)
Protection DIN EN 60529	IP 64
Operating speed	≤6000 rpm (electric)
Rotor moment of inertia	20 gcm ²
Materials	Housing: aluminium Flange: aluminium
Operating temperature	-25...+105 °C
Relative humidity	95 % non-condensing
Resistance	DIN EN 60068-2-6 Vibration 30 g, 16-2000 Hz DIN EN 60068-2-27 Shock 200 g, 3 ms
Weight approx.	620 g (5 m cable), 940 g (Option: 10 m cable)
Connection	Cable 5 m with D-SUB, 15-pin Option: cable 10 m

