

- Small size incremental encoder with high resolutionDC and AC motor feedback



C51



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- Data-sheet
- User manual

ENVIRONMENTAL SPECIFICATIONS		
Shock:	100 g, 6 ms (acc. to MIL STD 202F)	
Vibrations:	10 g, 5-2000 Hz (acc. to MIL STD 202F)	
Operating temperature range:	-20°C +85°C (-4°F +185°F)	
Storage temperature range:	-20°C +85°C (-4°F +185°F)	
	(98% R.H.without condensation)	
Protection:	IP54	
Option:	• IP65 Protection	

	MECHANICAL SPECIFICATIONS
Dimensions:	see drawing
Shaft hollow:	Ø 6, 6.35, 8, 9.52, 10 mm
Shaft loading (axial and radial):	20 N max.
Shaft rotational speed:	3000 rpm max.
Starting torque at 20°C:	≤ 1,5 Ncm (typical)
Moment of inertia:	~ 20 gcm²
Bearings life:	10° rev. min.
Weight:	~ 0,1 kg (3,5 oz)

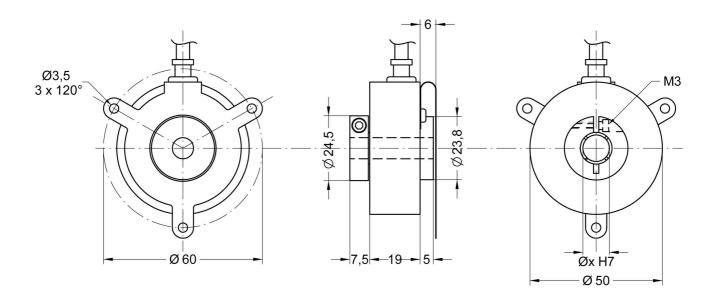
ELECTRICAL SPECIFICATIONS		
STD pulse rate:	6-10-12-15-25-36-40-45-50-60-80-90-900 1500-2000-2048-2500	
Power supply:	+5V±5%, +10V +30V,+5V +30V	
Output circuits:	Push-Pull, Line Driver, PP/LD	
Output current (per channel):	40 mA max.	
Output frequency:	100 kHz max.	
Input current:	70 mA max.	
Protection:	against inversion of polarity (except +5V version)	
Optoelectronic life:	100.000 hrs min.	

MATERIALS		
Flange:	anticorodal, UNI EN AW-6082	
Housing:	anticorodal, UNI EN AW-6082	
Bearings:	ABEC 5	
Shaft:	stainless steel, non-magnetic - UNI EN 4305	
Light source:	GaAl diodes	

ELECTRICAL CONNECTIONS		
1	2	Function
Brown	Yellow	A
-	Blue	/A
Blue	Green	В
-	Orange	/B
White	White	0
-	Grey	/0
Red	Red	+Vdc
Black	Black	0 Vdc GND

- 1 = Shielded cable LIKA 5x0,22 mm²
- 2 = Shielded cable LIKA 8x0,22 mm²

ACCESSORIES		
EDE9S:	9 pin DSub mating connector	



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