

RS-44T6S-3F17B-H1481

Absolute Shaft Encoder

Technical data

Type	RS-44T6S-3F17B-H1481
ID	200005187
Measuring principle	Optical
Starting torque	< 0.01 Nm
Measuring range	0...360 °
Repetition accuracy	± 0.2 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	17 Bit
Operating voltage U _B	5 VDC
No-load current	≤ 30 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Signal level high	typ. 3.8 V
Signal level low	typ. 1.3 V (20 mA load)
Communication protocol	SSi
Output function	Gray coded
Flange type	Synchro flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	20 N
Radial shaft load	40 N
Vibration resistance (EN 60068-2-6)	100 m/s ² , 55...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class housing	IP67

Features

- Absolute Shaft Encoder
- 5... VDC
- SSI, gray
- M12 connector, 8-pin, axial
- 360° resolved in 17 bit (131072 positions)

Wiring diagram

