

ROTACOD

Absolute encoder with incremental serial interface

series

Ax58 ISI



AS58 ISI

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 +70°C (-4°F +158°F)
Storage temperature range:	-20°C +80°C (-4°F +176°F) (98% R.H.without condensation)
Protection:	IP65

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft:	Ø 6, 8, 9.52, 10, 12 mm
Shaft loading (axial and radial):	40 N max.
Shaft rotational speed:	6000 rpm max.
Starting torque at 20°C:	< 1 Ncm (typical)
Moment of inertia:	~95 gcm ²
Bearing life:	400x10 ⁶ rev. min. (10 ⁹ rev. min. with shaft loading of 20 N max.)
Peso/Weight:	~0,3 kg (10,6 oz)
Electrical connections:	EML 121 CONNEI connector

ELECTRICAL SPECIFICATIONS

STD pulse rate (other PPR upon request):	720 - 1024 - 2048
Power supply:	+10V +30V
Input current:	250 mA max.
Output current (per channel):	40 mA max.
Output frequency:	50 kHz max.
Protection:	against inversion of polarity
Optoelectronic life:	100.000 h min.

MATERIALS

Housing:	non corroding
Flange:	non corroding
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic
Light source:	GaAl diodes

ELECTRICAL CONNECTIONS

12 pin IP65 mating connector

1	A	7	n.c.
2	/A	8	Error output
3	B	9	Zero setting
4	/B	10	Complementary
5	0	11	+10Vdc +30Vdc
6	/0	12	0 Vdc

ACCESSORIES

EPFL 121:	12 pin CONNEI mating connector
PAN/PGF:	flexible couplings
LKM-386:	finxing clamps

