

Incremental encoder with solid shaft

RU-2500-I24/N2

Article no longer available - archive entry



- 1 reference mark
- 2 M4 Depth 5 mm



Product characteristics

Resolution	2500 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	150

Outputs

Electrical design	HTL
Max. current load per output [mA]	50
Switching frequency [kHz]	300
Type of short-circuit protection	< 60 s
Phase difference A und B [°]	90

Measuring/setting range

Resolution	2500 resolution
------------	-----------------

Operating conditions

Ambient temperature [°C]	-20...85
Storage temperature [°C]	-30...100
Protection	IP 64

Tests / approvals

Shock resistance	100 g (6 ms)
------------------	--------------



Incremental encoder with solid shaft

RU-2500-I24/N2

Vibration resistance	10 g (55...2000 Hz)
----------------------	---------------------

Mechanical data

Dimensions	[mm]	Ø 58 / L = 46
Material		aluminum
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		Synchro-flange

Electrical connection

Cable: 2 m, PUR; radial

brown	A
green	A inverted
grey	B
pink	B inverted
red	0 index
black	0 index inverted
blue	L+ sensor
white	0V sensor
brown/green	L+ (Up)
white/green	0V (Un)
lilac	error inverted
screen	housing

Diagrams and graphs

Pulse diagram	 Direction of rotation clockwise (looking at the shaft)
---------------	--