RA6001

Incremental encoder with hollow shaft

RA-0010-I24/N2



Product characteristics		
Resolution		10 resolution
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	6
Application		
Function principle		incremental
Electrical data		
Operating voltage	[V]	1030 DC
Current consumption	[mA]	150
Outputs		
Electrical design		HTL
Max. current load per output	[mA]	50
Switching frequency	[kHz]	160
Type of short-circuit protection		< 60 s
Phase difference A und B	[°]	90
Measuring/setting range		
Resolution		10 resolution
Operating conditions		
Ambient temperature	[°C]	-4070
Note on ambient temperature		firmly laid cable
Max. relative air humidity	[%]	75; (briefly: 95 %)
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (552000 Hz)

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Mechanical data		
Weight	[9]	309.3
Dimensions	[mm]	Ø 35 / L = 42.1
Material		aluminum
Max. revolution, mechanical [U/min]		10000
Max. starting torqu	e [Nm]	2.5
Reference temperatorque	ature [°C]	20
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	6
Shaft fit		H7
Shaft material		steel (1.4104)
Installation depth/s	haft [mm]	621
Max. axial shaft mi	salignment [mm]	0,5
Electrical connec	tion	
Cable: 2 m, PUR; r	adial, can also be	used axially
brown	A	
green	0 V A	
grey	В	
pink	0 V B	
red	0 index	
black	0 V 0 index	
brown/green	L+ (Up)	
white/green	L- 0 V (Un)	
lilac	error inverted	
screen	housing	
Diagrams and gra	phs	
Pulse diagram		
		Direction of rotation clockwise (looking at the shaft)