

RU-2500-I05/S1

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

Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	150

Electrical design	TTL
Max. current load per output [mA]	20
Switching frequency [kHz]	300
Phase difference A and B [°]	90

Resolution	2500 resolution
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Ambient temperature	[°C]	-30...100
Note on ambient temperature		for firmly laid cable: -30 °C
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64



Incremental encoder with solid shaft

RU-2500-I05/S1

Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)

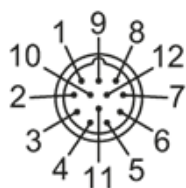
Mechanical data

Dimensions [mm]	Ø 58 / L = 46
Materials	aluminium
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	1
Reference temperature torque [°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: 1 m, PUR; axial

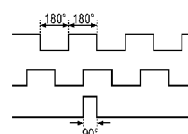
Connector: 1 x M23 (ifm 1001.6)



1	B inverted
2	L+ sensor
3	0 index
4	0 index inverted
5	A
6	A inverted
screen	housing
7	failure inverted
8	B
9	n.c.
10	0V (Un)
11	0V sensor
12	L+

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)