



# RU1212



## Incremental encoder with solid shaft

RU-0500-I05/R1E

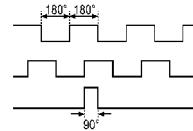
Max. relative air humidity	[%]	98
Protection		IP 66
<b>Tests / approvals</b>		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
<b>Mechanical data</b>		
Weight	[g]	0.001
Dimensions	[mm]	Ø 58 / L = 46
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting 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
<b>Electrical connection</b>		
Cable: 1 m, PUR; radial		
Connector: 1 x M23 (ifm 1001.1)		
pink (1)		B inverted
blue (2)		+5V sensor
red (3)		0 index
black (4)		0 index inverted
brown (5)		A
green (6)		A inverted
lilac (7)		failure inverted
grey (8)		B
pin 9		n.c.
white/green (10)		0V (Un)
white (11)		0V sensor
brown/green (12)		+5V (Up)
screen		housing

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### Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)