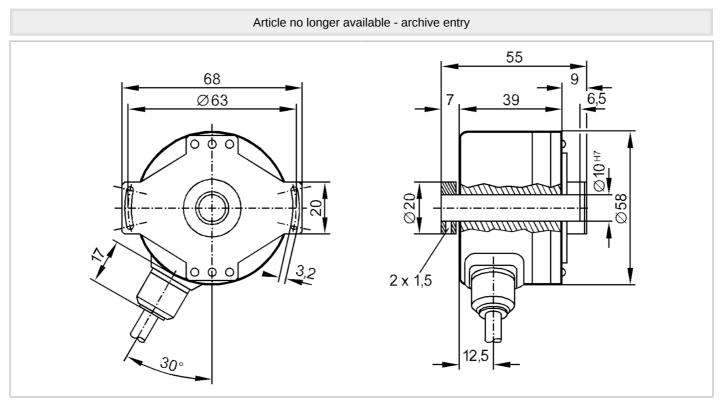
## **RO1339**

## Incremental encoder with hollow shaft







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Product characteristics  Resolution 2500 resolution  Shaft design continuous hollow shaft  Shaft diameter [mm] 10  Electrical data  Operating voltage tolerance [%] 10  Operating voltage [W] 5 DC  Current consumption [mA] < 150  Outputs  Electrical design TTL  Max. current load per output [mA] 20  Switching frequency [kHz] 300  Phase difference A und B [°] 90  Measuring/setting range  Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64			
Shaft design continuous hollow shaft  Shaft diameter [mm] 10  Electrical data Operating voltage tolerance [%] 10 Operating voltage [W] 5 DC Current consumption [mA] < 150  Outputs  Electrical design TTL  Max. current load per output [mA] 20 Switching frequency [kHz] 300 Phase difference A und B [°] 90  Measuring/setting range Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Max. relative air humidity [%] 98 Protection IP 64	Product characteristics		
Shaft diameter	Resolution		2500 resolution
Electrical data Operating voltage tolerance [%] 10 Operating voltage [V] 5 DC Current consumption [mA] < 150  Outputs  Electrical design TTL  Max. current load per output [mA] 20 Switching frequency [kHz] 300 Phase difference A und B [°] 90  Measuring/setting range Resolution 2500 resolution  Operating conditions Ambient temperature [°C] -30100 Storage temperature [°C] -30100 Max. relative air humidity [%] 98 Protection IP 64	Shaft design		continuous hollow shaft
Operating voltage tolerance [%] Operating voltage [V] Current consumption [mA]  Outputs  Electrical design TTL Max. current load per output [mA] Switching frequency [kHz] Phase difference A und B [°]  Measuring/setting range Resolution  Operating conditions Ambient temperature [°C] Storage temperature [°C] Max. relative air humidity [%] Protection  10  5 DC  5 DC	Shaft diameter	[mm]	10
Operating voltage [V] 5 DC Current consumption [mA] < 150  Outputs  Electrical design TTL  Max. current load per output [mA] 20  Switching frequency [kHz] 300  Phase difference A und B [°] 90  Measuring/setting range  Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Storage temperature [°C] -30100  Max. relative air humidity [%]  Protection IP 64	Electrical data		
Current consumption [mA] < 150  Outputs  Electrical design TTL  Max. current load per output [mA] 20  Switching frequency [kHz] 300  Phase difference A und B [°] 90  Measuring/setting range Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Operating voltage tolerance	[%]	10
Outputs   Electrical design TTL   Max. current load per output [mA] 20   Switching frequency [kHz] 300   Phase difference A und B [°] 90   Measuring/setting range 2500 resolution   Resolution 2500 resolution   Operating conditions -30100   Ambient temperature [°C] -30100   Storage temperature [°C] -30100   Max. relative air humidity [%] 98   Protection IP 64	Operating voltage	[V]	5 DC
Electrical design TTL  Max. current load per output [mA] 20  Switching frequency [kHz] 300  Phase difference A und B [°] 90  Measuring/setting range  Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Current consumption	[mA]	< 150
Max. current load per output [mA] 20  Switching frequency [kHz] 300  Phase difference A und B [°] 90  Measuring/setting range Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Outputs		
Switching frequency [kHz] 300  Phase difference A und B [°] 90  Measuring/setting range  Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100  Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Electrical design		TTL
Phase difference A und B [°] 90  Measuring/setting range Resolution 2500 resolution  Operating conditions  Ambient temperature [°C] -30100 Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Max. current load per output	[mA]	20
Measuring/setting range       Resolution     2500 resolution       Operating conditions     -30100       Ambient temperature     [°C]     -30100       Storage temperature     [°C]     -30100       Max. relative air humidity     [%]     98       Protection     IP 64	Switching frequency	[kHz]	300
Resolution     2500 resolution       Operating conditions     -30100       Ambient temperature [°C]     -30100       Storage temperature [°C]     -30100       Max. relative air humidity [%]     98       Protection     IP 64	Phase difference A und B	[°]	90
Operating conditionsAmbient temperature[°C]-30100Storage temperature[°C]-30100Max. relative air humidity[%]98ProtectionIP 64	Measuring/setting range		
Ambient temperature [°C] -30100  Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Resolution		2500 resolution
Storage temperature [°C] -30100  Max. relative air humidity [%] 98  Protection IP 64	Operating conditions		
Max. relative air humidity [%]  Protection  98  IP 64	Ambient temperature	[°C]	-30100
Protection IP 64	Storage temperature	[°C]	-30100
	Max. relative air humidity	[%]	98
Tests / approvals	Protection		IP 64
	Tests / approvals		
Shock resistance 100 g (6 ms)			100 g (6 ms)

## **RO1339**

## Incremental encoder with hollow shaft



RO-2500-I05/N11

Vibration resista	ance	10 g (552000 Hz)
Mechanical da	ta	
Dimensions	[mm]	Ø 58 / L = 55
Material		aluminum
Max. revolution, mechanical [U/min]		12000
Max. starting to	rque [Nm]	2.5
Reference temp torque	perature [°C]	20
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	10
Shaft fit		H7
Shaft material		stainless steel
Installation dep	th/shaft [mm]	10
Max. axial shaft misalignment [mm]		1; (max. radial shaft alignment: ± 0,05 mm)
Electrical conr	nection	
Cable: 1 m, PUF	R; radial	
brown green grey pink red black blue white brown/green white/green lilac screen	A A inverted B B inverted O index O index inverted L+ sensor OV sensor L+ (Up) OV (Un) error inverted housing graphs	
Pulse diagram		Direction of rotation clockwise (looking at the shaft)