

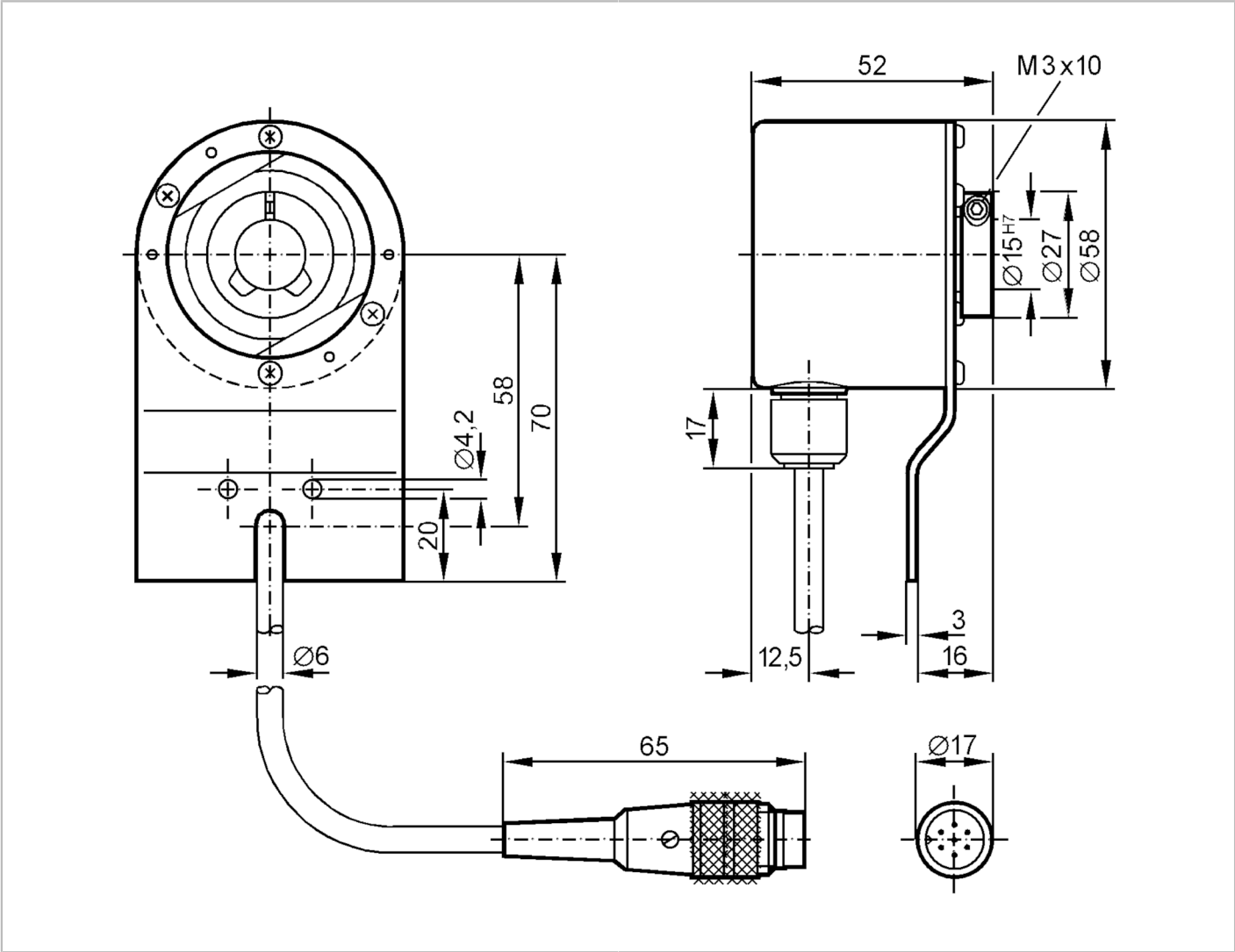
RN6058



Absolute singleturn encoder with solid shaft

RN-4096-S24/S

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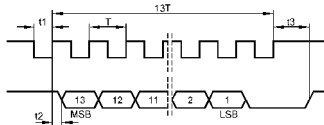


Product characteristics	
Resolution	4096 resolution; 4096 steps; 12 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	10
Electrical data	
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 150
Max. revolution electrical [U/min]	6000
Outputs	
Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	Data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signal data



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		and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 512 signal periods per revolution	
Measuring/setting range			
Resolution		4096 resolution; 4096 steps; 12 bit	
Interfaces			
Communication interface		SSI data interface	
Operating conditions			
Ambient temperature		[°C]	-20...85
Storage temperature		[°C]	-30...80
Protection			IP 64
Tests / approvals			
Shock resistance			100 g (6 ms)
Vibration resistance			10 g (55...2000 Hz)
Mechanical data			
Dimensions		[mm]	Ø 58 / L = 52
Material			aluminum
Max. revolution, mechanical		[U/min]	12000
Max. starting torque		[Nm]	1
Reference temperature torque		[°C]	20
Shaft design			solid shaft
Shaft diameter		[mm]	10
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
Electrical connection			
Cable: 0.8 m, PUR; Maximum cable length: 100 m; radial			
Connector: 1 x; Maximum cable length: 100 m			
1	0V		
2	data		
3	data inverted		
4	clock		
5	clock inverted		
6	n.c.		
7	10...30V		
screen	housing		
Diagrams and graphs			
Pulse diagram			
		clock	
		data	