RN6058

Absolute singleturn encoder with solid shaft

RN-4096-S24/S

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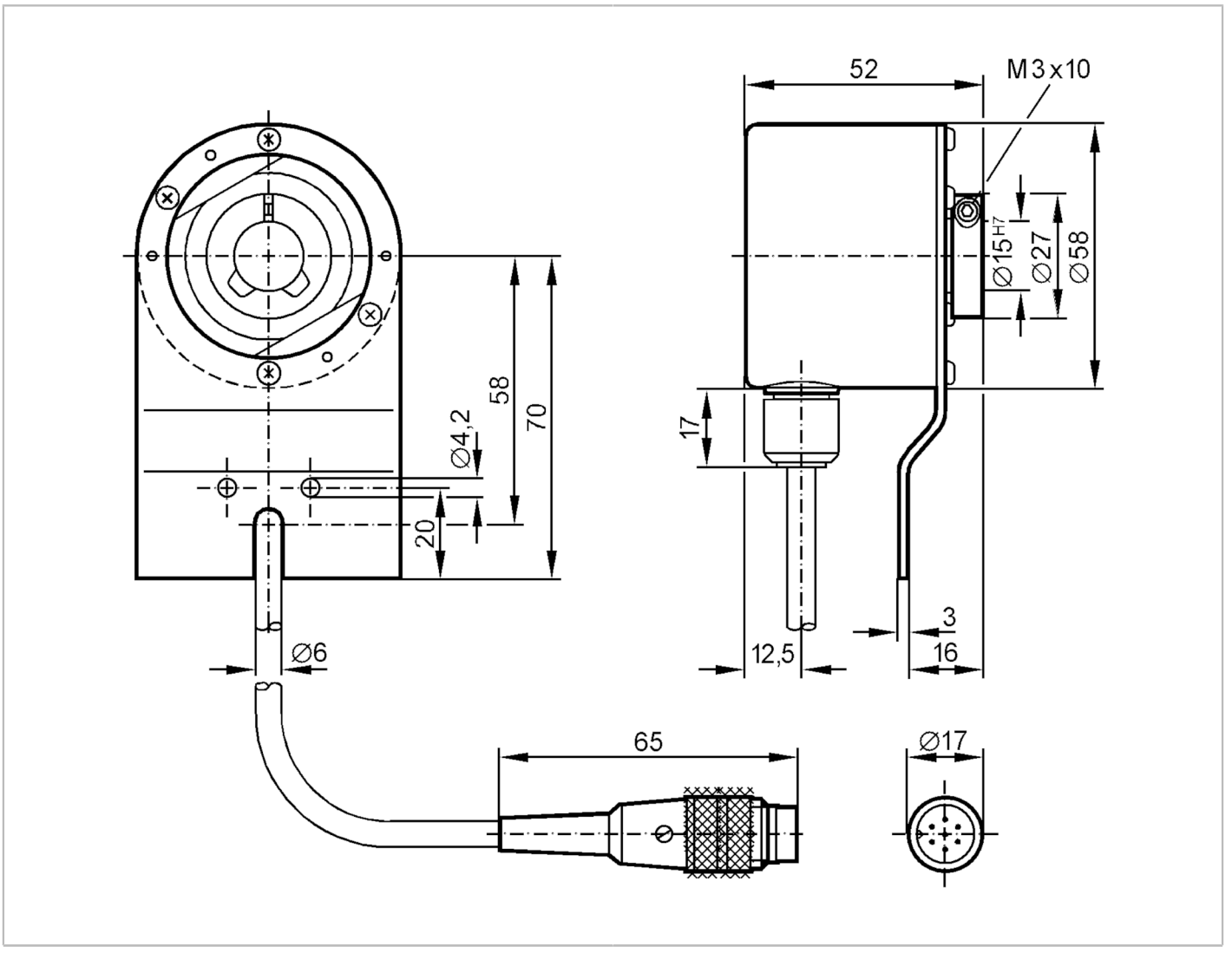

CE

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 signals, 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
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]	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

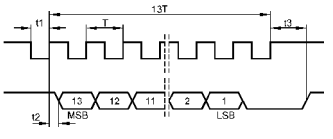
Cable: 0.8 m, PUR; Maximum cable length: 100 m; radial

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