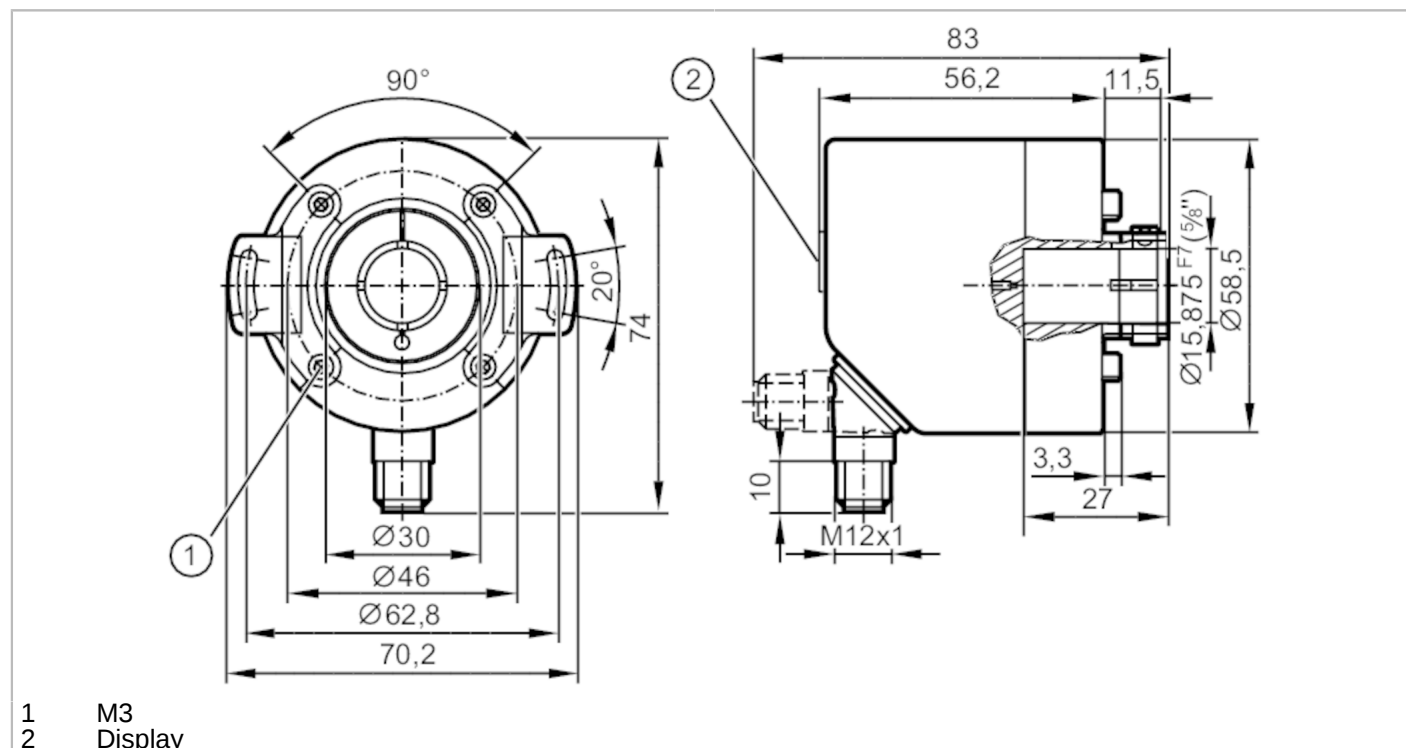


ROP524



Hollow shaft encoder open to one side

INCREMENTAL ENCODER PERFORMANCE LINE



- 1 M3
- 2 Display



Application		
Function principle		incremental
Detection system		magnetic
Application		encoder; Speed monitor; counter
Electrical data		
Operating voltage [V]		4.75...30 DC
Current consumption [mA]		< 350
Protection class		III
Reverse polarity protection		yes
Max. revolution electrical [U/min]		12000
Outputs		
Switching frequency [kHz]		1000
Factory setting		Output function: HTL (50 mA)
Electrical design		HTL/TTL
Short-circuit protection		yes
Phase difference A und B [°]		90
Measuring/setting range		
Resolution		1...10000; (parameterisable; Factory setting: 1024) resolution
Speed monitor		
Set point SP [U/min]		-9994...9999
Set point SP [Hz]		-166.6...166.7
Reset point rP [U/min]		-9999...9994
Reset point rP [Hz]		-166.7...166.6

ROP524



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counter		
Preset point		1...9999
Accuracy / deviations		
Accuracy	[°]	0.1
Software / programming		
Parameter setting options		encoder; Resolution; direction of rotation; HTL; TTL; Speed monitor; Resolution
Interfaces		
Communication interface		IO-Link
Transmission type		COM 2
IO-Link revision		1.1
SIO mode		yes
Min. process cycle time	[ms]	2.3
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	95; (condensation not permissible)
Protection		IP 65; (on the housing: IP 67; on the shaft: IP 65)
Tests / approvals		
Shock resistance		100 g
Vibration resistance		20 g
MTTF	[years]	218
Mechanical data		
Weight	[g]	464.2
Dimensions	[mm]	Ø 58.5 / L = 69
Materials		flange: aluminium; housing: stainless steel (1.4521 / 444); plug: stainless steel (1.4401 / 316); display window: PEI
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	2
Reference temperature torque	[°C]	20
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	15.875
Shaft material		stainless steel
Installation depth of shaft	[mm]	27
Max. axial shaft misalignment	[mm]	0,5
Displays / operating elements		
Display		10-segment display, red/ green 4-digit parameterisable
		2 LED, yellow
		5 LED, green
Accessories		
Accessories (supplied)		Stator coupling: 2



Hollow shaft encoder open to one side

INCREMENTAL ENCODER PERFORMANCE LINE

Electrical connection

IO-Link

1	L+
2	not to be used
3	L-
4	IO-Link
5	not to be used
6	not to be used
7	not to be used
8	not to be used
Screen	plug

encoder

1	UB
2	A
3	GND
4	Z/O-Pulse (90 deg)
5	B
6	A-
7	B-
8	Z-
Screen	plug

Preset counter

1	UB
2	IN1
3	GND
4	not to be used
5	OUT1
6	not to be used
7	not to be used
8	not to be used
Screen	plug



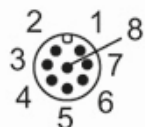
Hollow shaft encoder open to one side

INCREMENTAL ENCODER PERFORMANCE LINE

Speed monitor

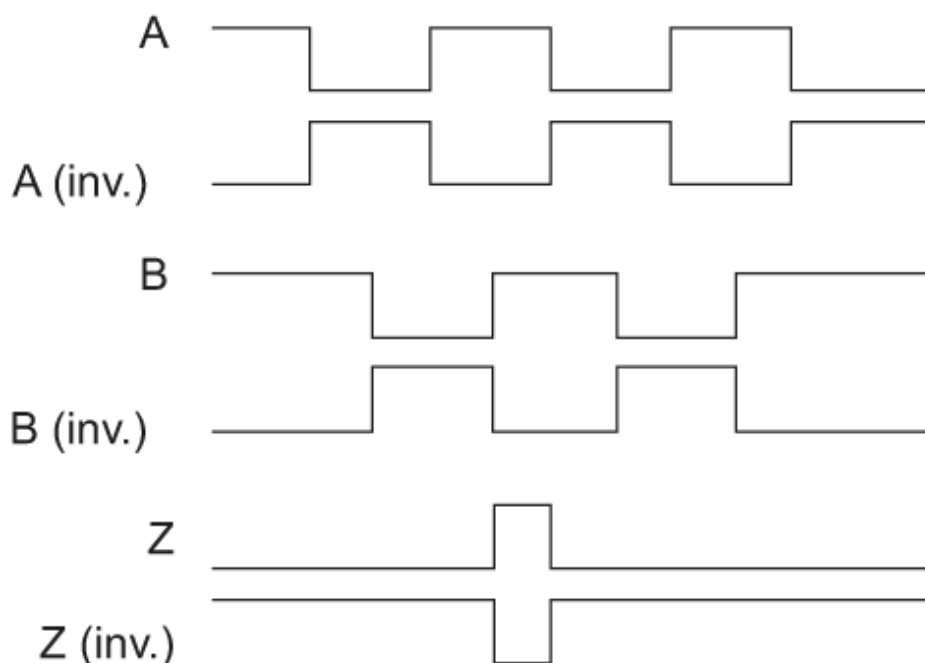
1	UB
2	OUT2
3	GND
4	not to be used
5	OUT1
6	OUT2-
7	OUT1-
8	not to be used
Screen	plug

Connector: 1 x M12, radial, can also be used axially; Moulded body: stainless steel (1.4401 / 316); Maximum cable length: 100 m



Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)