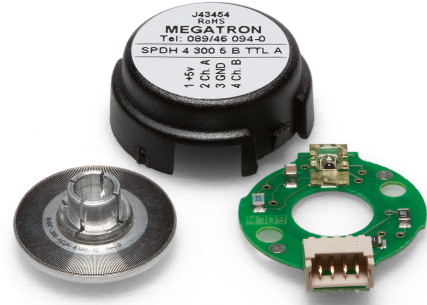


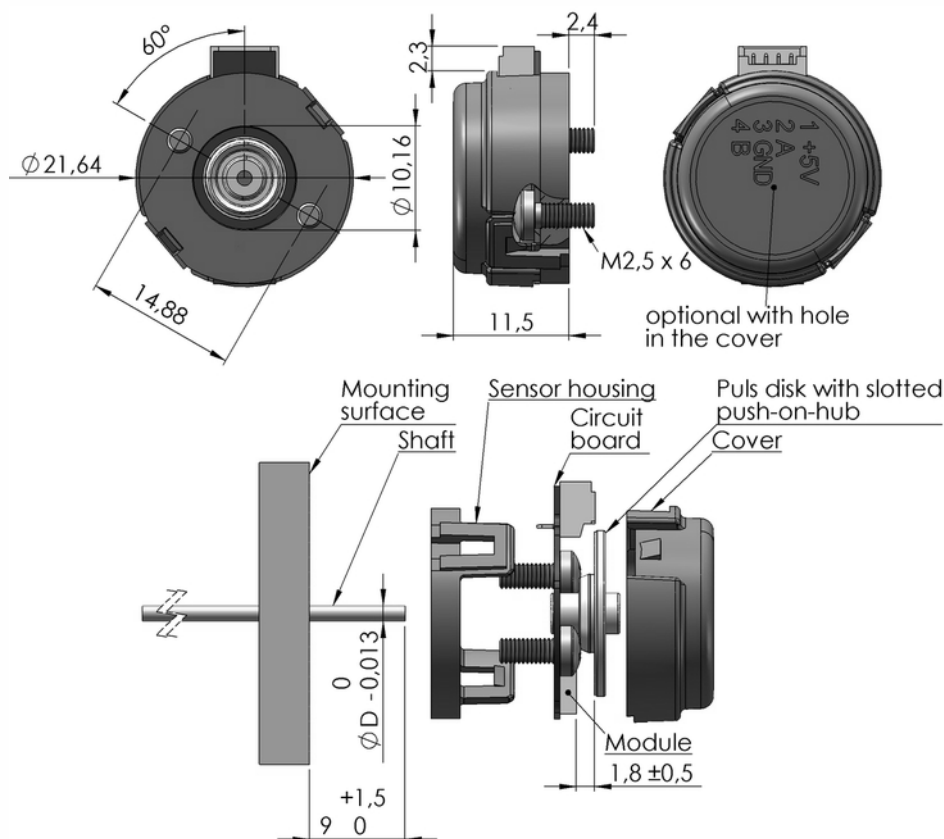
Series SPDH - Optoelectronic Hollowshaft Encoder

- Flat installation height 11.5 mm
- With slip-on disc
- Kit mounting
- Resolution up to 360 ppr
- Revolution up to 36.000 rpm
- Option: Through hole

This economical and flat design encoder comes without any bearing. Instead it uses the bearing of the connected drive system. As a result there is no mechanical wear at all. Customer specific modifications of housing or shaft diameter are possible options. Standard types from stock.

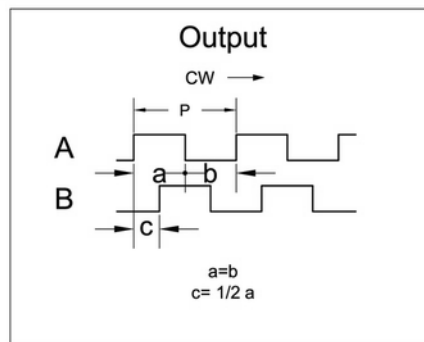
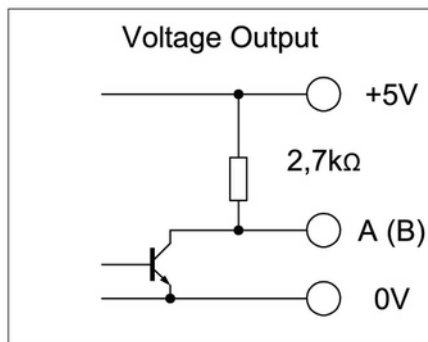


Drawing



Connection with Molex Picoblade 4-pole (plug), like MEGATRON part 119641 with 500mm wire AWG28

Series SPDH - Optoelectronic Hollowshaft Encoder



Electrical Data

Pulses	100, 108, 120, 125, 128, 200, 250, 256, 300, 360 ppr
Channels	A, B
Output Voltage High Pegel	min. 2,4 V (IOH = -0,2 mA)
Output Voltage Low Pegel	max. 0,4 V (IOL = 8 mA)
Frequency Response	30 kHz
Supply Voltage	5 V $\pm$ 10% (Ripple < 100mV Vpp)
Power Consumption	< 29 mA

Mechanical Data

Maximum Mechanical Revolution	3.600.000/Pulses [rpm]
Maximum Speed	250.000 rad/s ²
Permissible Axial Clearance	$\pm$ 0,5 mm
Permissible Excentricity + Radial Clearance	$\pm$ 0,25 mm

Other Data

Protection Class	IP40
Operating Temperature	-20 ... + 85°C
Storage Temperature	-40 ... + 100°C
Housing Material	Plastic
Disc Material	Metal
Vibration	20 g (5Hz - 2kHz)
Weight	5 g

Series SPDH - Optoelectronic Hollowshaft Encoder

Optionenauswahl und Bestellbezeichnung

Series SPDH	SPDH						
<u>Hollow shaft diameter</u>							
1,5 mm		1,5 (*)					
2 mm		2 (*)					
2,3 mm		2,3 (*)					
2,5 mm		2,5 (*)					
3 mm		3 (*)					
3,175 mm (1/8")		1/8" (*)					
4 mm		4					
5 mm		5 (*)					
6 mm		6					
6,35 mm (1/4")		1/4" (*)					
<u>Resolution [Pulses per revolution]</u>							
			100 (*)				
			108 (*)				
			120 (*)				
			125 (*)				
			128 (*)				
			200 (*)				
			250 (*)				
			256 (*)				
			300 (*)				
			360				
<u>Supply voltage</u>							
5 V				5			
2 channels with index					B		
<u>Electronics:</u>							
TTL						TTL	
<u>Housing:</u>							
Without through hole							A
With through hole							B

"bold print = standard option"

short-term stock types can be found on: <http://www.megatron.de/en/stocklists/angle-sensors/lagerliste.html>

(*) = on request available for projects

23.02.2015