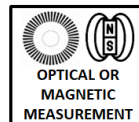
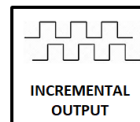
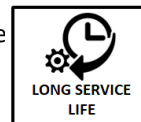


“Optical or Magnetic Measurement, 50 mm Body Diameter, Semi Hollow Shaft”

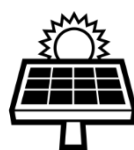
A black and silver industrial motor with a mounting bracket and a cable. The motor has a black cylindrical body and a silver-colored mounting bracket with two L-shaped flanges. A black cable is connected to the side of the motor. The motor is shown from a three-quarter perspective.

- Incremental measurement with Optical (ARC) or Magnetic (ARS) principle
- Resolution up to 20.000 pulses for Optical (ARC) and 1024 pulses for Magnetic (ARS)
- 50 mm body diameter
- 6 mm, 8 mm, 10 mm or 12 mm hollow shaft options
- Optical (ARC): 6000 RPM, Magnetic (ARS): 3000 RPM operating speed
- 300 KHz response frequency
- High accuracy
- Robust structure, long operating life
- Connection with cable or socket
- IP54 protection class



APPLICATIONS

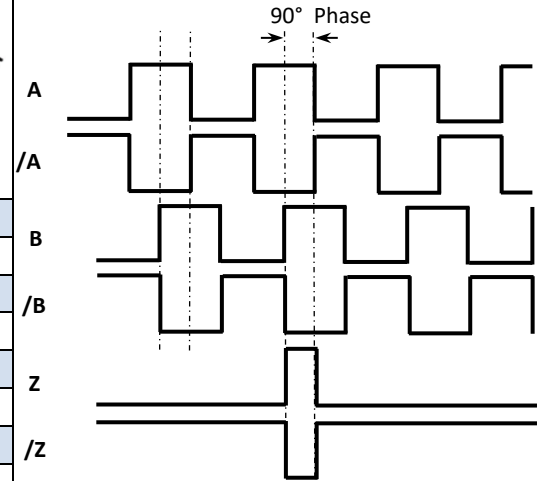
- Wind Applications / Power Plants
- Marine or Utility Vehicle Applications
- Press or Wood and Stone Processing Machinery
- Construction Machinery
- Cranes
- Offshore Applications
- Commercial Solar Plants
- Filling Plants
- Food & Beverage Applications
- Oil & Gas - Pipe Handling and Cranes



Resolution	ARC: Resolution options up to 20.000 pulses ARS: Resolution options between 1 and 1024 pulses						
Operating Speed	ARC: 6000 RPM, ARS: 3000 RPM max.						
Measuring Type	ARC: Optical, ARS: Magnetic						
Response Frequency	300 KHz						
Current Consumption	50 mA nominal						
Electrical Interface		PP	TTL	HTL	HPL	OCL	OCF
	Supply	10...30 VDC	5 VDC	10...30 VDC	5...30 VDC	The supply signal should not be lower than the output signal	
	Output	10...30 VDC PP	5 VDC TTL	5 VDC TTL	5...30 VDC PP	NPN Open Collector	PNP Open Collector
Output Signals	A, /A, B, /B, Z, /Z						
Output Current	100 mA max. (per channel)						
Electrical Connection	5 or 8x0,14 mm ² shielded cable, M16 / 8 pin male connector						
Body Diameter	50 mm						
Hollow Shaft Diameter	6 mm, 8 mm, 10 mm or 12 mm						
Operating Temperature	-25...+85 °C						
Storage Temperature	-40...+100 °C						
IP Protection Class	IP54						
Weight	~180 gr						
Material	Body: Aluminum						
	Shaft: Stainless Steel						

ELECTRICAL CONNECTIONS

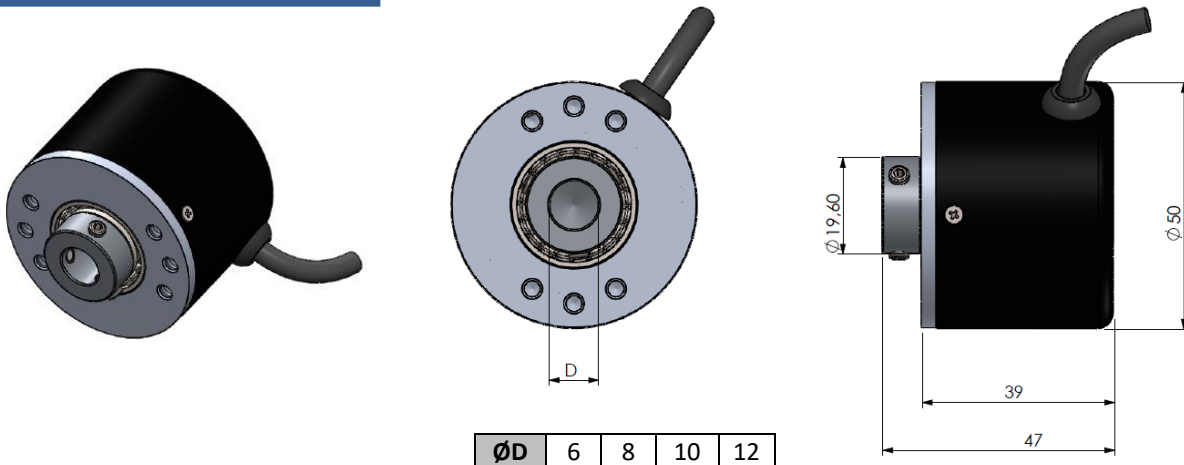
SIGNAL	M16 MALE SOCKET (S16) PIN NO	M16 CABLE TYPE MALE SOCKET (S21M) PIN NO	M16 CABLE TYPE FEMALE SOCKET (S21F) PIN NO	CABLE COLOR
A	1	1	1	YELLOW
/B	2	2	2	WHITE
+V	3	3	3	RED
0 V	4	4	4	BLACK
/A	5	5	5	BLUE
B	6	6	6	GREEN
/Z	7	7	7	GREY
Z	8	8	8	PINK



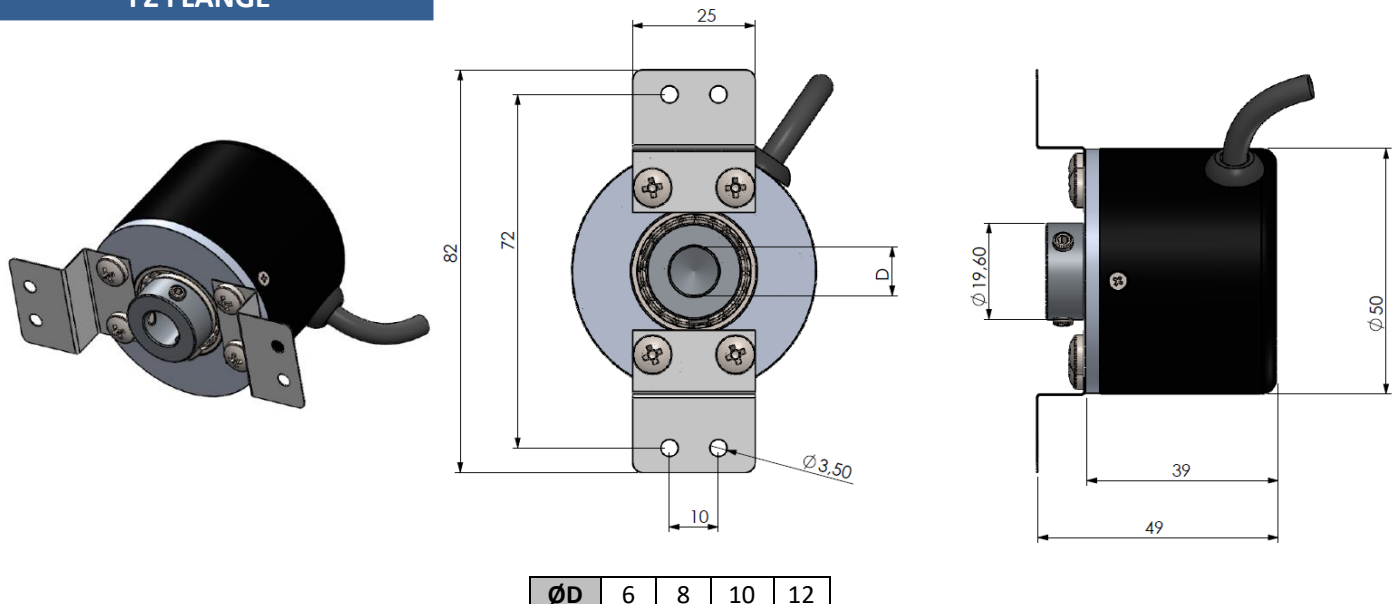
The table above shows the cable colors of the sensor output signals. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget that these edges have electricity too.

MECHANICAL DIMENSIONS (mm)

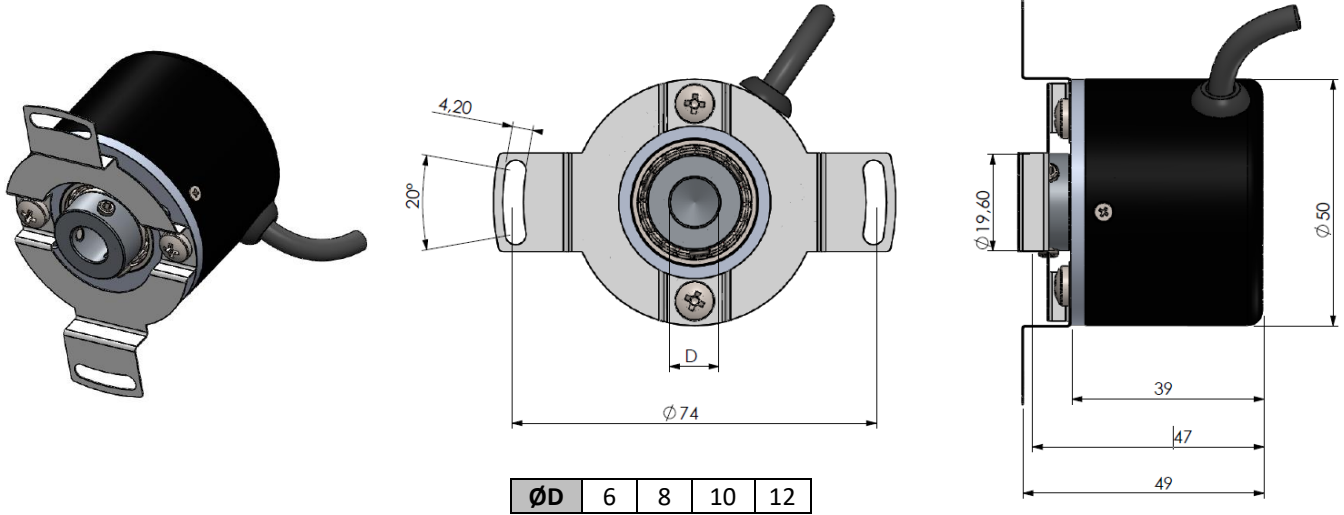
Encoder Dimensions



FZ FLANGE



FC FLANGE



PRODUCT CODE

Model		Body Diameter		Supply and Output		Electrical Connection ⁽¹⁾		Hole Diameter	
ARC : Optical		50 : 50 mm		PP : 10...30 VDC Supply		3M : 3 m cable (standard)		6 : 6 mm	
ARS : Magnetic				: 10...30VDC Output		5M : 5 m cable		8 : 8 mm	
				TTL : 5 VDC Supply		10M : 10 m cable		10 : 10 mm	
				: 5 VDC TTL RS422 Line Driver Out.		S16 : M16 Socket		12 : 12 mm	
				HTL : 10...30 VDC Supply		*Ask for other options			
				: 5 VDC TTL RS422 Line Driver Out.					
				HPL : 5...30 VDC Supply					
				: 5...30 VDC Push-Pull Output					
				OCL : NPN Open Collector					
				OCP : PNP Open Collector					
ARX	X	XX	XXXX	XXX	X	XX	XX	XX	XX
Shaft Type		Resolution		Output Signals		Cable Direction ⁽²⁾		Flange Type	
B : Semi Hollow Shaft		See Resolutions*		2 (A,B)		A : From backside		FZ : Z type	
				3 (A,B,Z)		Y : From side		FC : Circular	
				4 (A,/A,B,/B)		AS : From backside + spiral			
				6 (A,/A,B,/B,Z,/Z)					

- (1) The M16 (S16) socket can only be from the backside. Optionally, different cable lengths or socket models can be requested.
- (2) Cable direction can be selected from backside or side
PG7 gland is used when the cable direction is from the rear, PG7 gland is not used when the cable direction is from the back.

*Resolutions:

Optical: 60 - 100 - 360 - 500 - 1024 - 2000 - 2048 - 2500 - 3600 - 4096 - 5000 - 8192 - 10000 - 16384 - 20000 pulse

Magnetic: All resolution options from 1 to 1024 pulses.

Örnek Kodlama:

ARC-B-50-1024-PP-6-10M-A-8-FC

Optical, semi hollow shaft, 50 mm body diameter, 1024 pulses, Push-Pull, 6 output signals, 10 meters cable from backside, 8 mm shaft, Z type flange

Atek Elektronik Sensör Teknolojileri Sanayi ve Ticaret A.Ş.



Gebze OSB, 800. Sokak, No:814 Gebze/KOCAELİ/TÜRKİYE



Tel: +90 262 673 76 00



Tel: +90 262 673 76 00



www.ateksensor.com



info@ateksensor.com