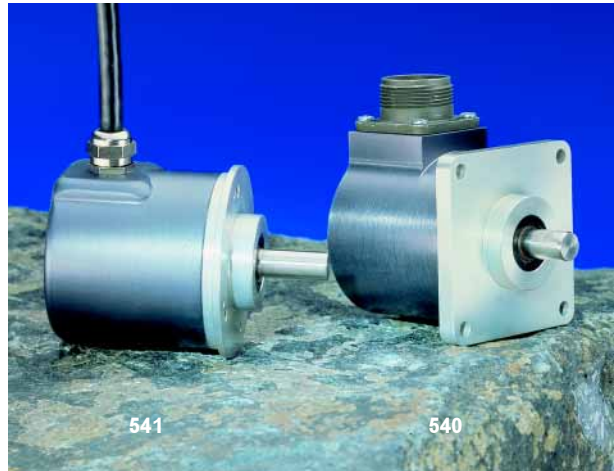




Incremental encoders

- ▶ 6 short-circuit protected outputs
1, 1, 2, 2, 0, 0
- ▶ IP 65, encapsulation class
- ▶ 5 Vdc or 9...30 Vdc



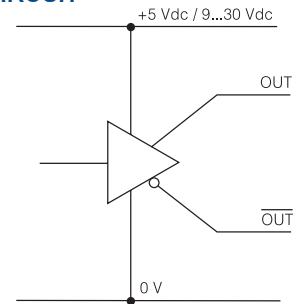
ELECTRICAL SPECIFICATION

Supply voltage +EV	9-30V	5V ±10%
	Polarity protected	---
Current consumption at no load	65mA @ 24V Max 75mA	45mA Max 70mA
Line counts (free choice)	1...5000 ppr	
Measuring steps	Max 20 000/r	
Accuracy		
Dividing error	± 50° el	
Channel separation	90° ± 25° el	
Outputs	HTL	RS-422, TTL
	Short circuit protected	
Load max	± 40mA	± 20mA
Max cable length	200m @ 50kHz	1km (TIA/EIA-422-B)
U _{high} (at 10mA load)	> +EV - 2,0V	> 3,0V
U _{low} (at 10mA load)	< 1,15V	< 0,4V
Frequency range	0...200kHz	

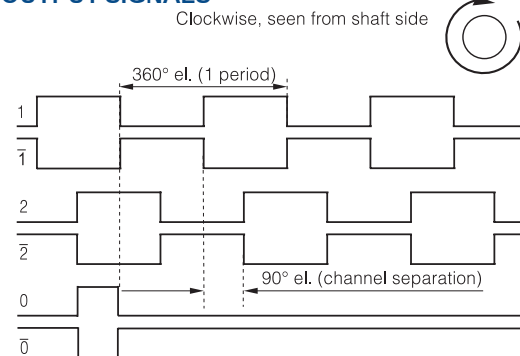
ACCESSORIES

Mating connector	
Options -00- anged	Part. No. 00201012 (10 pin MS) Part. No. 00201016
Options -03-, -04- anged	Part. No. 00201020 (7 pin MS) Part. No. 00201019
Options -05-	Part. No. 00201030 (12 pin EML)
Couplings	See datasheets for accessories

OUTPUT CIRCUIT



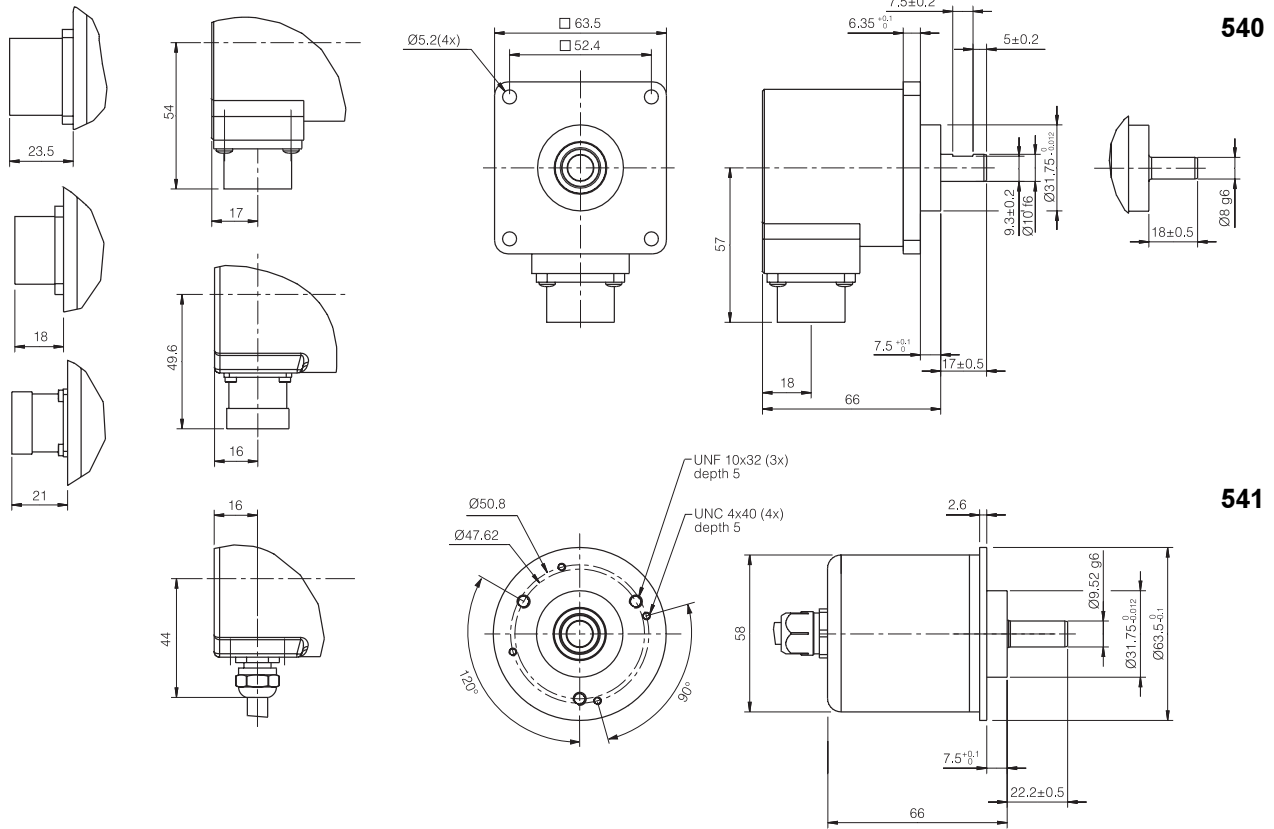
OUTPUT SIGNALS



CONNECTION

Function	10pin MS	12pin EML	7pin MS Option -03-	7pin MS Option -04-	Colour
1	A	5	A	A	Green
2	B	8	B	B	Yellow
0	C	3	C		Red
+ E Volt	D	12	D	D	Violet
Sensor +E Volt	E		E		
0 Volt	F	10	F	F	White
1-bar	G	6		C	Blue
2-bar	H	1		E	Black
0	I	4			Brown
Case					Shield

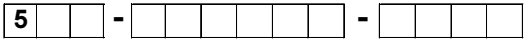
540 / 541



MECHANICAL SPECIFICATION

Shaft, Stainless steel	Ø8mm, Ø9.52mm, Ø10mm
Moment of inertia	2,6 x 10 ⁻⁶ kgm ²
Load max	
Radial	60N
Axial	50N
Speed max	6000 rpm (12000 rpm)
Code disc	Unbreakable acrylic glass or glass disc
Temperature	
Operating	-25°C ... +70°C
Storage	-25°C ... +70°C
Housing	Aluminum, anodized
Weight	Approx. 300g
Protection class	IP 65 according to IEC 529
Vibration	<100m/s ² (50...2000 Hz)
Shock	<1000m/s ² (11ms)
Cable	6x0,25mm ² 2x0,35mm ² PVC

ORDERING INFORMATION



Type

- 40 = Square flange
- 41 = Round flange

Option

- 00 = Standard, cable or 10 pin MS
- 03 = 7 pin MS connector (1, 2, 0)
- 04 = 7 pin MS connector (1, 1, 2, 2)
- 05 = 12 pin EML connector

Shaft

- 4 = Ø 8 mm
- 5 = Ø 9,52 mm (3/8")
- 6 = Ø 10 mm with face

Connection

- 0 = Connector, axial (see option)
- 1 = Cable, axial 1.5 m
- 2 = Connector, radial (see option)
- 3 = Cable, radial 1.5 m
- 8 = Cable, axial xx m
- 9 = Cable, radial xx m

Supply voltage

- 1 = 5 Vdc
- 5 = 9...30 Vdc

Internal use

- 1 = 1 ... 2500 ppr
- 2 = 2501 ... 4999 ppr
- 4 = 4096 or 5000 ppr/glassdisc

Line counts



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01-03-22 PS. Specifications can be changed without prior notice.