Special Encoders & Sensors

Incremental encoder, surface mount housing Resolution 1...120 pulses

G 305



G 305 with single shaft

Features

- Low-cost encoder
- Optical sensing
- Up to 120 pulses with 1 or 2 pulse tracks
- Surface mount housing (for measuring wheel)
- Shaft at one or both ends
- Versatile mounting options

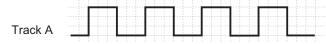
Technical data - electrical ratings						
Voltage supply	1030 VDC					
Consumption w/o load	≤40 mA					
Resolution (steps/turn)	5120					
Sensing method	Optical					
Output frequency	≤10 kHz (1 track) ≤6 kHz (2 tracks)					
Output signals	A or A 90° B					
Output circuit	Push-pull short-circuit proof					

Technical data - mechanical design						
Housing	62.5 x 70 mm					
Shaft	ø7 mm single / dual shaft					
Protection DIN EN 60529	IP 30 with housing connector IP 52 with PG cable					
Operating speed	≤6000 rpm					
Admitted shaft load	≤5 N axial ≤10 N radial					
Material	Housing: plastic, glass-fibre reinforced					
Operating temperature	0+60 °C					
Relative humidity	95 % non-condensing					
Weight approx.	130 g					
E-connection	Connector or cable					

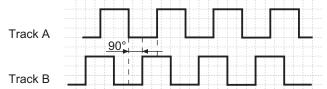
Output signals

Clockwise rotating direction when looking at flange.

For 1 track



For 2 tracks



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Part number G 305. See part number (pulses) Voltage supply / signals 10...30 VDC / 1 track connector output 10...30 VDC / 1 track cable gland 10...30 VDC / 2 tracks connector output 10...30 VDC / 2 tracks cable gland E- connection / impulse track 0 Housing connector / 1 track Housing connector / 2 tracks Cable gland / 2 m cable / 1 track Cable gland / 2 m cable / 2 tracks Shaft 10 Single protruding

Accessories				
Connectors and cables (page %S)				
Z 127.001	Mating connector M18, 5-pin, less cable			
Z 127.002	Mating connector M18, 5-pin, 2 m cable			
Z 127.004	Mating connector M18, 5-pin, 5 m cable			
Z 127.006	Mating connector M18, 5-pin, 10 m cable			

Terminal assignment						
Connector	Cable colour	Assignment				
Pin 1	brown	UB				
Pin 2	blue	GND				
Pin 3	black	Track A				
Pin 4	beige	Track B (2 pulse tracks) (n.c. 1 pulse track)				



Part number (pulses)

0

2

1 impulse track			2 impulse tracks					
08 (5) 10	(40)	13	(80)	A1	(5)	A3	(50)
11 (1	0) 03	(50)	20	(90)	A7	(25)	A4	(60)
01 (2	0) 04	(60)	06	(100)	A8	(30)	B1	(64)
12 (2	(5) 18	(64)	07	(120)	A9	(40)		
02 (3	0)							

20 Dual protruding

Pulse tracks

1 track

2 tracks

More impulse numbers upon request.

Dimensions

