

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	10...30 VDC
Consumption w/o load	≤40 mA
Resolution (steps/turn)	5...120
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



